## Unit Tests: Workbook 4 <br> JUMPMath

## Contents

$$
\text { Patterns \& Algebra - Part } 1
$$

Answer Key for Patterns \& Algebra - Part 1
Number Sense - Part 1
Answer Key for Number Sense - Part 1
Measurement - Part 1
Answer Key for Measurement - Part 1
Probability \& Data Management - Part 1
Answer Key for Probability \& Data Management - Part 1
Geometry - Part 1
Answer Key for Geometry - Part 1
Patterns \& Algebra - Part 2
Answer Key for Patterns \& Algebra - Part 2
Number Sense - Part 2
Answer Key for Number Sense - Part 2
Measurement - Part 2
Answer Key for Measurement - Part 2
Probability \& Data Management - Part 2
Answer Key for Probability \& Data Management - Part 2
Geometry - Part 2

[^0]
## jump math

MULTIPLYING POTENTIAL.

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or any information storage and retrieval system, without written permission from the publisher, or expressly indicated on the page with the inclusion of a copyright notice.

## JUMP Math

Toronto, Ontario
www.jumpmath.org

## Patterns \& Algebra

Name: $\qquad$

## Unit Test

Date: $\qquad$

## Section A

1. Fill in the missing numbers:
a) $\qquad$ is 3 more than 5
b) 13 is $\qquad$ more than 7 $\qquad$ is 9 less than 14
2. Find the gap and then extend the patterns:

NOTE: You should always check that the gap is the same between each pair of numbers!
a)


 ,
b) 21

 ,
$\qquad$
 , $\qquad$
c) 0

8 , $\qquad$ , $\qquad$ ,
d)

41 36
$\qquad$ , $\qquad$ ,
3. State the rule for the following patterns:
a) $65,75,85,95,105$
add $\qquad$ b) $39,33,27,21,15$
subtract $\qquad$
c) $200,191,182,173,164$
Start at $\qquad$ and $\qquad$
d) $55,66,77,88,99$
$\qquad$
4. Create a pattern of your own. Then give the rule you used.

My pattern: $\qquad$ , $\qquad$ , $\qquad$ , , $\qquad$ My rule: $\qquad$
5. Josephine reads 7 pages of her book each night. Last night she was on page 64. What page will she reach tonight? And tomorrow night?
6.

Philip says the above pattern was made by adding 6 each time. Is he correct? Explain:

## Patterns \& Algebra

## Unit Test

Name: $\qquad$
Date: $\qquad$

## Section B

7. Circle the core of the following patterns:
а) $\square \square \square \square \square \square \square \square$
b) $\begin{array}{llllllllllll}3 & 1 & 5 & 3 & 1 & 5 & 3 & 1 & 5 & 3 & 1 & 5\end{array}$
c) $C D B D C D B D C D B D$
) $\oplus \bigcirc \oslash \bigcirc \oplus \bigcirc$
e) 2255522552255

f) | $\mathbf{Y}$ | $\mathbf{R}$ | $\mathbf{R}$ | $\mathbf{Y}$ | $\mathbf{R}$ | $\mathbf{R}$ | $\mathbf{Y}$ | $\mathbf{R}$ | $\mathbf{R}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

8. Circle the core of the pattern. Then continue the pattern:
a)
 - $\qquad$
$\qquad$ $\underline{ }$ $\qquad$
$\qquad$
b) $A C E A C E A$ $\qquad$ _-_ -_
c) $\begin{array}{llllllll}1 & 8 & 7 & 4 & 8 & 7\end{array}$ $\qquad$ __ _ _ _ _ _ _
d)

| $\mathbf{R}$ | $\mathbf{B}$ | $\mathbf{B}$ | $\mathbf{R}$ | $\mathbf{R}$ | $\mathbf{B}$ | $\mathbf{B}$ | $\mathbf{R}$ |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(B) | B |
| :--- |

b)

10. Write the two or three attributes that change in each pattern:
a)

b) $/ \mathbf{Y}$ (R) $\langle Y\rangle R \quad Y$
c)

d)

$\qquad$

## Unit Test

Name: $\qquad$
Date: $\qquad$

## Section C

11. Extend the following number patterns:
a)
b)

| Figure | Number of <br> Blocks |
| :---: | :---: |
| 1 | 3 |
| 2 | 6 |
| 3 | 9 |
|  |  |
|  |  |


| Figure | Number of <br> Blocks |
| :---: | :---: |
| 1 | 2 |
| 2 | 8 |
| 3 | 14 |
|  |  |
|  |  |

c)

| Figure | Number of <br> Blocks |
| :---: | :---: |
| 1 | 5 |
| 2 | 9 |
| 3 | 13 |
|  |  |
|  |  |

d) How many blocks would be in Figure 7 of part a) above? Explain how you know:
12. Complete each T-table to find the amount of money Daniella would make in 4 hours:
a)

| Hours <br> Worked | Dollars Earned <br> in an Hour |
| :---: | :---: |
| 1 | $\$ 11$ |
|  |  |
|  |  |
|  |  |

b)

| Hours <br> Worked | Dollars Earned <br> in an Hour |
| :---: | :---: |
| 1 | $\$ 15$ |
|  |  |
|  |  |
|  |  |

c)

| Hours <br> Worked | Dollars Earned <br> in an Hour |
| :---: | :---: |
| 1 | $\$ 17$ |
|  |  |
|  |  |
|  |  |

13. Create a T-table to solve the following problem.

On Day 1, Remi planted 12 plants in his garden. Each day after that, he planted 7 plants. How many plants did Remi plant by the end of Day 4 ?
$\qquad$
$\qquad$
14. Christian starts work on Thursday morning. He mows 7 lawns each day. How many lawns has he mowed by Sunday evening?
15. Jake has $\$ 56$ in his savings account in the end of April. He spends $\$ 6$ every month after that. How much does he have in the end of July?

| Month | Savings |
| :---: | :---: |
| April | $\$ 56$ |
|  |  |
|  |  |
|  |  |

18. 



Clare makes an ornament using 1 rectangle and 3 triangles. She has 6 rectangles. How many triangles will she need if she plans to use all 6 rectangles?

## Section A

1. a) 8
b) 6
c) 5
2. a) $G a p=+3$; 11, 14, 17
b) $\quad \mathrm{Gap}=-2$; 15, 13, 11
c) $\quad \mathrm{Gap}=+4$; 12, 16, 20
d) $\quad \mathrm{Gap}=-5$; 31, 26, 21
3. a) Add 10
b) Subtract 6
c) Start at 200 and subtract 9
d) Start at 55 and add 11
4. Answers will vary
5. Tonight: pg. 71 Tomorrow Night: pg. 78
6. No, Philip is not correct. The "gap" between 3 \& 9 and $14 \& 20$ is 6 , but the gap between $9 \& 14$ is 5 .

## Section B

7. a) $\square$
b) 315
c) $\quad C D B D$
d) $\bigoplus \bigcirc \bigotimes \bigcirc$
e) 2255

f) $\quad$| $Y$ | $R$ | $R$ |
| :--- | :--- | :--- |

8. a) $\quad$ Core $=\square \triangle \square$ $\square \triangle \square \square \triangle \square$
b) $\quad$ Core $=\mathrm{A} C \mathrm{E}$; C E A C E
c) $\quad$ Core $=1874$; 187418 74
d) The core (which

is | $R$ | $B$ | $B$ | $R$ |
| :--- | :--- | :--- | :--- | repeats 3 more times.

9. a) Colour
b) Size
10. a) Colour, shape
b) Colour, shape and size
c) Colour, shape
d) Colour, size

## Section C

11. a)

Gap $=+3 ;$

| 4 | 12 |
| :---: | :---: |
| 5 | 15 |
| 6 | 18 |

b)
Gap = +6;

| 4 | 10 |
| :---: | :---: |
| 5 | 26 |
| 6 | 32 |

c)
Gap $=+4$;

| 4 | 17 |
| :---: | :---: |
| 5 | 21 |
| 6 | 25 |

d) Figure 7 would have 21 blocks continue to add 3 blocks.
12. a)

| 2 | $\$ 22$ |
| :---: | :---: |
| 3 | $\$ 33$ |
| 4 | $\$ 44$ |
| 2 | $\$ 30$ |
| 3 | $\$ 45$ |
| 4 | $\$ 60$ |
| 2 | $\$ 34$ |
| 3 | $\$ 51$ |
| 4 | $\$ 60$ |

13. By the end of Day 4, Remi had 33 plants:

| Day | Plants |
| :---: | :---: |
| 1 | 12 |
| 2 | 19 |
| 3 | 26 |
| 4 | 33 |

## Section D

14. Christian has mowed 28 lawns by Sunday evening

| Day | \# Lawns |
| :---: | :---: |
| Thursday | 7 |
| Friday | 14 |
| Saturday | 21 |
| Sunday | 28 |

15. By the end of July, Jake has \$38:

| Month | \# Savings |
| :---: | :---: |
| April | $\$ 56$ |
| May | $\$ 50$ |
| June | $\$ 44$ |
| July | $\$ 38$ |

16. To use all 6 rectangles, Claire will need 18 triangles:

Rectangles Triangles

| 1 | 3 |
| :---: | :---: |
| 2 | 6 |
| 3 | 9 |
| 4 | 12 |
| 5 | 15 |
| 6 | 18 |

## Number Sense

Name: $\qquad$
Unit Test
Date: $\qquad$

## Section A

1. Beside each number, write the place value of the underlined digit:
a) $3 \underline{8} 2$

b) $\underline{7} 26$

c) $945 \underline{3}$

d) $\underline{3} 107$

e) $2 \underline{168}$

f) $53 \underline{81}$

2. Write numerals for the following number words:
a) four hundred twenty-six $\qquad$ b) one thousand, six hundred thirty-seven
c) eight thousand, five hundred ten $\qquad$ d) three thousand, two hundred four $\qquad$
$\qquad$
3. Write number words for the following numerals:
a) 562
b) 1319 $\qquad$
c) 4308 $\qquad$
4. For each question below, give the number represented by the picture. Write each number in expanded form (numerals and words) first:
a)

___ thousand + $\qquad$ hundreds + $\qquad$ tens + $\qquad$ ones = $\square$
b)

$\qquad$ hundreds + $\qquad$ tens $\qquad$ ones $=$ $\square$

## Number Sense

Unit Test

Name: $\qquad$
Date: $\qquad$

## Section A (continued)

5. Write the numbers for the given base ten blocks:

|  | Thousands | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: | :---: |
| a) |  |  |  |  |

6. Represent the given numbers with the base ten blocks in the place value chart:

|  | Number | Thousands | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: | :---: | :---: |
| a) | 1263 |  |  |  |  |
| b) | 3195 |  |  |  |  |
| c) | 2304 |  |  |  |  |

## Number Sense

Name: $\qquad$
Unit Test
Date: $\qquad$

## Section A (continued)

7. Expand the following numbers using numerals and words:
a) $5276=$ $\qquad$ thousands + $\qquad$ hundreds + $\qquad$ tens + $\qquad$ ones
b) $3014=$ $\qquad$ thousands + $\qquad$ hundreds + $\qquad$ tens + $\qquad$ ones
c) $1938=$ $\qquad$
d) $6460=$ $\qquad$
8. Write the number in expanded form (using numerals only):
a) $253=$ $\qquad$ b) $2657=$
$\qquad$
9. Write the number in each box. Then circle the larger number in each pair: Hint: If there is the same number of thousands, count the number of hundreds or tens.
a) (i)

(ii)


b) (i)

(ii)

10. Circle the greater number in each pair:
a) 646
or 664
b) 327
or 237
c) 5688 or 5788
d) 3612 or 3610
11. List all the three-digit numbers you can make using the digits 4,7 and 6 . Circle the greatest number:

## Number Sense

Unit Test

Name: $\qquad$
Date: $\qquad$
13. Complete the charts below by exchanging 10 hundreds for 1 thousand:

| thousands | hundreds |
| :---: | :---: |
| 4 | 17 |
|  |  |


| thousands | hundreds |
| :---: | :---: |
| 6 | 12 |
|  |  |

14. Exchange hundreds for thousands, or tens for hundreds:
a) 2 thousands +13 hundreds +4 tens +6 ones $=$ $\qquad$ thousands + $\qquad$ hundreds + $\qquad$ tens + $\qquad$ ones
b) 4 thousands +7 hundreds +28 tens +5 ones $=$ $\qquad$
$\qquad$
15. Add (regrouping where necessary):
a) $\begin{array}{r}43 \\ +\quad 29 \\ \hline\end{array}$
$\qquad$
b) $\begin{array}{r}517 \\ +\quad 192 \\ \hline\end{array}$
+192

+ 

c) $\begin{array}{r}725 \\ +\quad 683 \\ \hline\end{array}$
d) $\begin{array}{r}2490 \\ +\quad 1353 \\ \hline\end{array}$
e) $\begin{array}{r}5831 \\ +\quad 2176 \\ \hline\end{array}$ -
16. Subtract (regrouping where necessary):
a) $\begin{array}{r}54 \\ -\quad 27 \\ \hline\end{array}$
b) $\begin{array}{r}726 \\ -\quad 313 \\ \hline\end{array}$
c) $\begin{array}{r}921 \\ -\quad 156 \\ \hline\end{array}$
d) $\begin{array}{r}6065 \\ -\quad 3412 \\ \hline\end{array}$
e) $\begin{array}{r}9572 \\ -\quad 2846\end{array}$
$\square$

$\begin{array}{r}-3412 \\ \hline\end{array}$
a)

|  | 1 | 0 | 0 |
| :---: | :---: | :---: | :---: |
| - |  | 8 | 1 |
|  |  |  |  |

b)

|  | 1 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: |
| - |  | 3 | 4 | 7 |
|  |  |  |  |  |

18. Georgia earned $\$ 2418$ during her summer vacation. Emma earned $\$ 1345$. How much more money did Georgia earn than Emma?

## Number Sense

Name: $\qquad$
Unit Test
Date: $\qquad$

## Section C

19. Draw two arrays for each of the following multiplication statements (or products):
a) $2 \times 3$
b) $3 \times 5$
C) $4 \times 6$
20. Draw an array to answer the following questions. Include a multiplication statement in your answer:
a) Jenny planted 5 seeds in each row. There are 7 rows of seeds. How many seeds did Jenny plant?
b) A room holds 8 tables. Each table seats 4 people. How many people can sit in the room at once?
21. Multiply by regrouping ones as tens or tens as hundreds:
a)

b)

c)

d)

e)

22. Jacob multiplied two numbers. The product was one of the numbers. What was the other number? How do you know?
23. Florence multiplied 5 by some number. The product was zero. What number was that? How do you know?

## Number Sense

Name: $\qquad$
Unit Test
Date: $\qquad$

Section C (continued)
24. Round to the nearest tens place. HINT: Underline the tens digit first.
a) 16 $\square$ b) 81
$\square$
c) 255

25. Round to the nearest hundreds place. HINT: Underline the hundreds digit first.
a) 178

b) 236

C) 419

d) 975

e) 1477

f) 2831 $\square$
26. Round to the nearest thousands place (underline the thousands digit first):
a) 2457 $\square$ b) 8193 $\square$ c) 3524 $\square$
27. A store has the following items for sale:
A. Sofa $-\$ 525$
B. Arm Chair - $\$ 216$
C. Table - $\$ 219$
D. Desk - \$354
E. Lamp - \$97
a) What could you buy if you had $\$ 750$ to spend? Estimate to find out. Then add the actual price to check:
b) What would you buy if you had $\$ 1000$ to spend? Again, show both your estimate and the actual total price:

## Number Sense

Unit Test

Name: $\qquad$
Date: $\qquad$

## Section D

28. Count the given coins and write the total amount:

Hint: Count by the greater amount first.
a) Total amount $=$ $\qquad$ $\phi$

b) Total amount = $\qquad$

c) Total amount = $\qquad$

29. For each question, draw in exactly two additional coins to make each total:

30. Use the least number of coins to make the totals:

Hint: Start by seeing how many dimes you need (if any), then nickels and then pennies.
a) $16 \phi$
b) $23 \phi$
31. Erik sold cookies for his class field trip. He collected 4 toonies, 6 loonies, 2 quarters, 7 dimes, 3 nickels and 9 pennies. How much money did he collect in total?
32. Cathy spent $73 \phi$ on her eraser. She paid for it with a loonie. Calculate her change:

## Section A

1. a) Tens
b) Hundreds
d) Ones
d) Thousands
e) Hundreds
f) Tens
2. a) 426
b) 1637
c) 8510
d) 3204
3. a) Five hundred sixty-two
b) One thousand three hundred nineteen
c) Four thousand three hundred eight
4. a) 1346
b) 3209
5. a) 2438
b) 4361
6. Teacher to check.
7. a) 5 thousands + 2 hundreds + 7 tens + 6 ones
b) 3 thousands + 0 hundreds + 1 tens + 4 ones
c) $\quad 1$ thousands + 9 hundreds + 3 tens +8 ones
d) 6 thousands + 4 hundreds + 6 tens +0 ones
8. a) $200+50+3$
b) $2000+600+$
b) $50+7$
9. a) i) 424
ii) 420
b) i) 1232
ii) 1132
10. a) 664
b) 327
c) 5788
d) 3612
11. 476, 467, 647, 674, 746,764

Section B
12.

| hundreds | tens |
| :---: | :---: |
| 3 | 9 |


| hundreds | tens |
| :---: | :---: |
| 4 | 1 |

13. 

| thousands | hundreds |
| :---: | :---: |
| 5 | 7 |


| thousands | hundreds |
| :---: | :---: |
| 7 | 2 |

14. a) 3 thousands + 3 hundreds + 4 tens + 6 ones
b) $\quad 4$ thousands + 9 hundreds + 8 tens + 5 ones
15. a) 72
b) 709
c) 1408
d) 3843
e) 8007
16. a) 27
b) 413
c) 765
d) 2653
e) 6726
17. a) 19
b) 653
18. Georgia earned $\$ 1073$ more than Emma (\$2418-\$1 345).

## Section C

19. 
20. 

a)

-     -         -             - 

$\bullet$

- •••
- •••
$\bullet \bullet \bullet \bullet$.
$5 \times 7=35$
Jenny planted 35 seeds.
b)

-     -         - 



- ••
-•••
-•••
$8 \times 4=32$
There would be room for 32 people to sit.

21. a) 975
b) 570
c) 755
d) 726
e) 456

Section C (continued)
22. The other number must have been 1 since any number times one is equal to the number itself.
23. The number must have been 0 since any number times zero is zero.
24. a) 20
b) 80
c) 260
25. a) 200
b) 200
c) 400
d) 1000
e) 1500
f) 2800
26. a) 2000
b) 8000
c) 4000
27. a) Answers will vary: teacher to check.
b) Answers will vary: teacher to check.

## Unit Test: Number Sense - Workbook 4, Part I (continued)

| Section D |  |  |
| :---: | :---: | :---: |
| 28. | a) | 67¢ |
|  | b) | 62¢ |
|  | c) | 104¢ |
| 29. | a) | 5¢, 10¢ |
|  | b) | 10¢, 1 $\dagger$ |
|  | c) | \$1, \$1 |
|  | d) | \$2, \$2 |
| 30. | a) | 10¢, 5¢, 1ф |
|  | b) | $\begin{aligned} & 10 \phi, 10 \phi, 1 \phi, \\ & 1 \phi, 1 \phi \end{aligned}$ |
| 31. | Eric collected \$15.44 in total. |  |
| 32. |  | s change would |

Measurement
Unit Test

Name: $\qquad$
Date: $\qquad$

## Section A

1. Measure all the sides of each shape:
a)
b)

2. Measure the following lines using both centimetres and millimetres:

$\qquad$ mm

$\qquad$ mm
$\qquad$ cm
$\qquad$ mm
3. Write the following units in order from smallest to largest:

mm
4. Complete the following equations:
$1 \mathrm{~cm}=$ $\qquad$ mm
$1 \mathrm{~m}=$ $\qquad$ cm
$1 \mathrm{~km}=$
5. Fill in the numbers missing from the following charts. Be sure to look at the headings carefully!

| $\mathbf{c m}$ | $\mathbf{m m}$ |
| :---: | :---: |
| 3 |  |
|  | 70 |
| 14 |  |


| $\mathbf{c m}$ | $\mathbf{m}$ |
| :---: | :---: |
| 200 |  |
|  | 5 |
|  | 11 |


| $\mathbf{m}$ | $\mathbf{k m}$ |
| :---: | :---: |
|  | 2 |
| 5000 |  |
|  | 19 |

$\qquad$ m
6. Convert the measurement given in cm to a measurement using multiple units:
a) $427 \mathrm{~cm}=$ $\qquad$ m $\qquad$ cm
b) $259 \mathrm{~cm}=$ $\qquad$ m $\qquad$ cm
c) $619 \mathrm{~cm}=$ $\qquad$ m $\qquad$ cm
d) $504 \mathrm{~cm}=$ $\qquad$ m $\qquad$ cm

## Measurement

Name: $\qquad$
Unit Test
Date: $\qquad$

## Section A (continued)

7. Gustav is a member of his school's track team. The track is 300 m long:
a) If Gustav ran 3 times around the track, how many metres would
 he have travelled? Show your work.
b) If Gustav is planning on competing for the 2000 m race at the Metro Finals. About how many times around the track is this? Explain your answer.
8. Number the following items from smallest to largest ( $1=$ smallest, $2=$ middle, $3=$ largest). What unit would you use to measure the height or length of each item? Write it underneath:
a)


b)


9. Which unit of measurement would you use for the following:
a) Length of a ladybug: $\qquad$
c) Length of your arm: $\qquad$ Explain your thinking:
b) Height of your school: $\qquad$
d) The distance traveled by plane from Halifax to Winnipeg: $\qquad$ Explain your thinking:
$\qquad$
Date: $\qquad$

## Section B

10. Each edge is 1 unit long. Write the length of each side beside the figure (don't miss any edges!). Then use the side lengths to find the perimeter. Show your work:
a)

Perimeter $=$
b)

Perimeter $=$
11. Find the perimeter of each shape. Don't forget to include proper units in your answer:
a)

b)




Perimeter $=$ $\qquad$
Perimeter = $\qquad$
Perimeter = $\qquad$
Perimeter = $\qquad$
e) Write the letters of the shapes in order from greatest perimeter to least perimeter. (Make sure you look at the units!)
12. Andrea finds the perimeter by measuring each side of the square and adding them together.

Betsey finds the perimeter by measuring one side of the square and multiplying this number by four. Will they get the same answer? Explain.
$\qquad$
Unit Test
Date: $\qquad$

## Section C

13. For each clock, write the entire time - that is, the hour and the exact minute:
a)

b)

c)

$\qquad$
$\qquad$
$\qquad$
$\qquad$
f)

$\qquad$ $:$
e)

_ : $\qquad$
__ : :
14. Write the time on the digital clock. Then write the time in words:
a)

b)

c)


## Measurement <br> Unit Test

Name: $\qquad$
Date: $\qquad$
Section C (continued)
15. How much time passed from 10:55 to 12:20?
16. How many...
a) months are in 1 year? $\qquad$ b) weeks are in a month? $\qquad$
c) days are in a year? $\qquad$ d) seconds are in a minute? $\qquad$
17. How many months are in 3 years?
18. Use lines to connect a length of time in the first column to an equal length of time in the second - be sure to convert properly!

| 1 year |
| :---: |
| 30 years |
| 1 day |
| 4 centuries |
| 120 minutes |


| 400 years |
| :---: |
| 24 hours |
| 3 decades |
| 2 hours |
| 365 days |

19. In each case, match the question with the unit of time you would use to give the answer:

| What is your friend's age? |
| :--- |
| How long does it take you to walk around the block? |
| How long is the school day? |
| How long is March Break? |
| How long is summer vacation? |


| years |
| :---: |
| weeks |
| months |
| minutes |
| hours |

20. Convert the times from 24 -hour notation using a.m. or p.m.
a) $13: 00$ $\qquad$
b) 7:30 $\qquad$

## Section A

1. a)

2. 

a) $\quad 1.5 \mathrm{~cm} ; 15 \mathrm{~mm}$
b) $4 \mathrm{~cm} ; 40 \mathrm{~mm}$
c) $3 \mathrm{~cm} ; 30 \mathrm{~mm}$
d) $2.5 \mathrm{~cm} ; 25 \mathrm{~mm}$
3.
4. $1 \mathrm{~cm}=10 \mathrm{~mm}$
$1 \mathrm{~m}=100 \mathrm{~cm}$
$1 \mathrm{~km}=1000 \mathrm{~m}$
5.

| $\mathbf{c m}$ | $\mathbf{m m}$ |
| :---: | :---: |
| 3 | 30 |
| 7 | 70 |
| 14 | 140 |


| $\mathbf{c m}$ | $\mathbf{m}$ |
| :---: | :---: |
| 200 | 2 |
| 500 | 5 |
| 1100 | 11 |


| $\mathbf{m}$ | $\mathbf{k m}$ |
| :---: | :---: |
| 2000 | 2 |
| 5000 | 5 |
| 19000 | 19 |

6. 

a) 4 m 27 cm
b) 2 m 59 cm
C) 6 m 19 cm
d) 5 m 4 cm
7.
b) Specific answers will vary, but the estimate should be 6 or 7 times around the track.
8. a)
(2) cm ;
(3) m ;
(1) mm
b) $\quad(3) \mathrm{km}$;
(1) mm ;
(2) cm
9. a) mm
b) $\quad \mathrm{m}$
c) cm
(explanations will vary)
d) km (explanations will vary)

## Section B

10. a) $4+2+4+2=$ 12 units
b) $3+2+1+3+$ $2+1+4+6=$ 22 units
11. a) 20 m
b) $\quad 9 \mathrm{~km}$
c) 38 cm
d) 24 m
e) $\quad B, D, A, C$
12. Yes, they will get the same answer, since the 4 sides on a square are all equal.

## Section C

13. a) 6:24
b) $\quad 12: 40$
C) 7:27
d) 5:04
e) $3: 42$
f) $9: 33$
14. a) 01:11
eleven minutes after one
b) $04: 29$
twenty-nine minutes after four
c) 11:47

Answers will vary: thirteen minutes before twelve;
forty-seven minutes after eleven.
d) $\quad \$ 2, \$ 2$
15. 1 hr 25 min
16. a) 12
b) About 4
c) 365
d) 60
17. $3 \times 12=36$ months
18. 1 year $=365$ days 30 years $=3$ decades 1 day = 24 hours 4 centuries $=400$ years 120 minutes $=2$ hours
19. Teacher to check.
20. a) 1:00 p.m.
b) 7:30 a.m.

Probability \& Data Management Unit Test

Name: $\qquad$
Date: $\qquad$

1. In a bag of marbles, there are three different colours: blue (B), green (G) and yellow (Y).
B

G
B
G
B
$Y$
(B)

G

G
B
(B)

(B)
B
G
(Y)
a) Use the chart to tally the marbles. Then create a pictograph using the key provided:

KEY: $\bigcirc=2$ marbles

| Colour | Tally | Pictograph |
| :--- | :--- | :--- |
| Blue |  |  |
| Green |  |  |
| Yellow |  |  |

b) Suppose, instead, there were 9 green marbles in the bag. How would you use the key above to draw the pictograph for 9 ?
2. Complete the following tally chart below:

Question: What is your favourite animal?

| Animal | Tally of Students | Count |
| :--- | :--- | :---: |
| Dog | III III II | - |
| Cat | III III | - |
| Horse | III | - |
| Rabbit | III I | - |

Next, complete the bar graph to display the data in the chart.

Be sure to label your axes clearly, and include a title. Also, think carefully about a scale that would be suitable.


Probability \& Data Management Unit Test
$\qquad$
Date: $\qquad$
3. Can you help Luke read the following double bar graph?

My Friends' Favourite Books

$\square$ Girls
$\square$ Boys
a) Which type of books did the same number of boys and girls prefer?
b) What type of books do girls like most? What about boys?
c) How many girls voted altogether? How many boys?
4. Determine the values of the other bars on the graphs:
a)

b)

c)


Probability \& Data Management Unit Test
$\qquad$
Date: $\qquad$
5. Ivan found the following information on the Internet:
a) Ivan must create a data display of this information. What type of graph do you think he should use? Why?

| City | $\frac{\text { Average Annual }}{}$ |
| :--- | :---: |
| Snowfall (cm) |  |
| Yellowknife, NT | 143 |
| Regina, SK | 107 |
| Winnipeg, MB | 114 |
| Halifax, NS | 261 |
| St. John's, NF | 322 |

b) Display Ivan's data on the kind of graph you named above. Be sure to include labels.
6. Look at the following shapes:


Fill in the following table (using checkmarks), and then use the table to complete the Venn diagram:

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| A |  |  |  |
| B |  |  |  |
| C |  |  |  |
| D |  |  |  |
| E |  |  |  |
| F |  |  |  |
| G |  |  |  |



Section A
$1 . a \mathrm{a}$

| Colour | Tally | Pictograph |
| :--- | :---: | :--- |
| Blue | 12 | ○○○○○○ |
| Green | 8 | $\bigcirc \bigcirc \bigcirc \bigcirc$ |
| Yellow | 6 | $\bigcirc \bigcirc \bigcirc$ |

b) 9 would be drawn as:
OOOOC
2.

| Animal | Count |
| :--- | :---: |
| Dog | 12 |
| Cat | 9 |
| Horse | 3 |
| Rabbit | 6 |

Bar graphs will vary, but here is a sample:
Our Favourite Animals


## Favourite Animal

3. a) Comics
b) Girls prefer novels; boys prefer comics and facts books.
c) $\quad 15+9+3=$ 27 girls
$7+9+3=$ 19 boys
4. a) $\mathrm{A}=25$
$B=40$
b) $B=11$
c) $B=20$

C=5
5. a) Teacher to check.
b) Answers will vary; teacher to check.

## Section B



Shapes


## Geometry

Unit Test

Name: $\qquad$
Date: $\qquad$

## Section A

1. a) Complete the chart:
b) For these shapes, what relationship do you see between the number of sides and the number of vertices?

|  | Shape name | \# of sides | \# of vertices |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |

2. Mark (with a small square) all the right angles in the following figures. Then circle the figures that have exactly two right angles:
a)

b)

c)

d)

e)

f)

3. Use arrows to mark any pairs of parallel lines in the figures below:
a)

$\qquad$ pairs
b)

c)

d)

$\qquad$ pairs
$\qquad$ pairs

## Geometry

Unit Test

Name: $\qquad$
Date: $\qquad$

## Section A (continued)

4. a) Name the following shapes:

HINT: Use the words rhombus, square, parallelogram and rectangle. Watch your spelling!
(i)

(ii)

(iii)

(iv)

b) How did you decide which shape was the rhombus? Explain.
5. Measure the following angles, using a protractor. Don't forget your units!
a)

b)

6. How many degrees are there in a right angle? $\qquad$
7. When Vanessa measured the angle in the diagram, she thought it was $70^{\circ}$. What error did she make? What is the correct measure of the angle?


## Geometry

## Unit Test

$\qquad$
Date: $\qquad$

## Section B

8. Circle the pairs of shapes that are congruent:
a)


b)


c)

d)

9. Find any shapes that are congruent to Shape A and label them with the letter A. If you can find any other shapes that are congruent to each other, label them all with the same letter:

10. In the grid below, draw TWO shapes: (i) one that is congruent to the shape provided but is turned on the side and (ii) one that is not congruent to the shape provided. Label them clearly:

11. What does it mean if a shape is equilateral?

## Geometry

## Unit Test

Name: $\qquad$
Date: $\qquad$

Section B (continued)
12. Using these shapes, answer the questions below:

a) Which shapes above (by letter) are equilateral? $\qquad$
b) Categorize the shapes by type:

| Shapes | Letter |
| :--- | :--- |
| Triangles |  |
| Quadrilaterals |  |


| Shapes | Letter |
| :--- | :--- |
| Pentagons |  |
| Octagons |  |

c) Which shapes (by letter) didn't fit any of the shape names given? Why?
d) Complete the following chart. Then, using your chart and the Venn diagram provided, sort the figures by the properties given:

| Property | Figures with this property: |
| :--- | :--- |
| 1. I have more than 4 vertices |  |
| 2. I have at least 1 right angle |  |

HINT: Which figures share both properties? Which figures have neither?


## Section A

1. a)

|  | Name | \# S | \# V |
| :---: | :--- | :---: | :---: |
| $\triangle$ | Triangle | 3 | 3 |
| $\triangle$ | Pentagon | 5 | 5 |
| $\square$ | Hexagon | 6 | 7 |

b)

The number of sides equals the number of vertices.
2. a)

b) No right angles
c)

d)

e)

f)

3. a)

b)

$$
1 \text { pair }
$$


c)


1 pair
d) 0 pairs
4. a) (i) square
(ii) parallelogram
(iii) rectangle
(iv) rhombus
b) Although both a square and a rhombus are equilateral and have 2 pairs of parallel sides, a rhombus does require right angles!
5. a) $105^{\circ}$
b) $46^{\circ}$
6. $90^{\circ}$
7. Since the angle given is larger than a right angle $\left(90^{\circ}\right)$, Vanessa should have read the measure from the inner row of numbers. The correct measurement is $110^{\circ}$.

## Section B

8. a)

b)

c)

d)

9. NOTE:

Letters used may vary.


D -

10. Answers will vary; teacher to check.
11. It means that all sides are the same length.
12. a)

B, G, I, J
b)

| Shapes | Letter |
| :--- | :--- |
| Triangles | B, H |
| Quadrilaterals | C, F, G |
| Pentagons | D, E, I |
| Octagons | J |

c) 'A' doesn't fit any of the shapes given: it is not a polygon / quadrilateral since it contains sides that are curved.
d)

| Property | Figures |
| :---: | :--- |
| $\# 1$ | D, E, I, J |
| $\# 2$ | C, D, E, <br> G, H |



Name: $\qquad$

## Unit Test

Date: $\qquad$

## Section A

1. Describe each pattern as increasing, decreasing or repeating:
a) $1,4,7,10,13,16$ $\qquad$ b) $1,5,8,1,5,8$
c) $9,8,7,6,5,4$ $\qquad$ d) $2,4,6,8,10,12$
e) $21,16,10,7,5,1$ $\qquad$ f) $3,8,3,8,3,8$
)
$\qquad$
$\qquad$
2. A gardener plants roses (R), lilies (L) and tulips (T) in rows in the pattern shown to the right:
a) Complete the chart.
b) In which row will the pattern in the second row be repeated? $\qquad$

| Row 1 | R | L | T | R | L |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Row 2 | T | R | L | T |  |
| Row 3 |  |  |  |  |  |
| Row 4 |  |  |  |  |  |
| Row 5 |  |  |  |  |  |
| Row 6 |  |  |  |  |  |
| Row 7 |  |  |  |  |  |

3. a) On the chart, circle every $11^{\text {th }}$ number (i.e. circle the numbers you would say when counting by 11 's: 11, 22, 33, ...).

The numbers you circle are the multiples of 11 (up to 132).
b) What patterns can you see in the ones digit and the tens digit of the multiples of 11 ?

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 13 | 14 | 15 | 16 | 17 | 180 | 19 | 20 | 21 | 22 | 23 | 14 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |
| 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
| 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 |
| 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 |

## Patterns \& Algebra

Name: $\qquad$

## Unit Test

Date: $\qquad$

## Section A (continued)

4. Find the step or the gap between the numbers in the sequence. Continue the pattern in the gaps. Then extend the sequence.
a) 2 ,





11 $\qquad$ ,
b) 3




9
13

$\qquad$
 , $\qquad$

c)

d)
 12

, 18,26 $\qquad$

,
$\qquad$
e) 99 $\qquad$

f)
f) 110

$\qquad$ ,
5. Roger and Eve save the amounts shown:
a) What is the pattern rule for the amount Roger saves?
b) What is the pattern rule for the amount Eve saves?

| Week | Roger | Eve |
| :---: | :---: | :---: |
| 1 | $\$ 1$ | $\$ 17$ |
| 2 | $\$ 2$ | $\$ 21$ |
| 3 | $\$ 4$ | $\$ 25$ |
| 4 | $\$ 8$ | $\$ 29$ |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |

c) Who do you think will save more by the end of the seven weeks?
d) Continue the pattern to see if you are right.

## Patterns \& Algebra

## Unit Test

$\qquad$
Date: $\qquad$

## Section B

6. How many triangles will be needed for Figure 6? How do you know?


Figure 1


Figure 2


Figure 3
7. What is the $23^{\text {rd }}$ shape in this pattern? Explain how you know.






8. Look at the numbers below and circle those that are multiples of 5 . How do you know the numbers you circled are multiples of 5 ?
75
125
132
270
382
597
670
9. Extend each pattern:
a) $3427 \quad 3527 \quad 3627$
b) $4234 \quad 5235 \quad 6236$
c) $1234 \quad 2345 \quad 3456$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Patterns \& Algebra

Unit Test
Name: $\qquad$
Date: $\qquad$

## Section C

10. Find the number that makes the equation true and write it in the box:
a) $\square+2=5$
b) $3+\square=9$
c) $\square$ $+2=11$
d) $9-\square=4$
e) $17-\square=12$
f) $8-\square=6$
g) $2 \times \square=8$
h) $\square$ $5=15$
i) $3 \times \square=12$
j)

k)

I)

m) $9+3=6+$ $\qquad$
n) $10-3=$ $\square$

NOTE: In these questions you have to put the same number in both boxes of the equation.
o) $\square$
$\square$
p) $\square$
$\square$ $+3=13$
11. Find 3 sets of numbers that make the equation true:

NOTE: In each equation, congruent shapes represent the same number.

12. Raegan threw 3 darts and scored 5 points. The dart in the centre ring is worth more than the others. How much is each dart worth? Show your work:

13. Find the mystery number:
"I am greater than 17 and less than 24. I am a multiple of 4. What number am I?"

## Section A

1. a) increasing
b) repeating
c) decreasing
d) increasing
e) decreasing
f) repeating
2. a)

| 1 | R | L | T | R | L |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | T | R | L | T | $R$ |
| 3 | L | $T$ | $R$ | L | $T$ |
| 4 | $R$ | L | $T$ | $R$ | $L$ |
| 5 | $T$ | $R$ | $L$ | $T$ | $R$ |
| 6 | $L$ | $T$ | $R$ | L | $T$ |
| 7 | $R$ | L | $T$ | $R$ | $L$ |

b) Row 5
3. a) Teacher to check.
b) For the two-digit numbers, the ones and tens digits are the same.
For the three-digit numbers, the ones digit is 1 less than the tens digit.
4. a) Gaps:

2, 3, 4, 5, 6
Continued Pattern:
16, 22
b) Gaps:

1, 2, 3, 4, 5, 6
Continued Pattern:
18, 24
c) Gaps:
$-12,-10,-8,-6,-4$
Continued Pattern: 34, 30
d) Gaps:

2, 4, 6, 8, 10, 12
Continued Pattern:
36, 48
e) Gaps:

- 21, - 18, - 15, - 12,
- 9

Continued Pattern:
33, 24
f) Gaps:
$-5,-10,-15,-20$,
$-25,-30$
Continued Pattern:
35, 3
5. a)

Each week, Roger saves twice as much as he did the previous week.
b) Each week, Eve saves $\$ 4$ more than she did the previous week.
c)

Answers may vary.
d)

| $\mathbf{W k}$ | $\mathbf{R}$ | $\mathbf{E}$ |
| :---: | :---: | :---: |
| 1 | $\$ 1$ | $\$ 17$ |
| 2 | $\$ 2$ | $\$ 21$ |
| 3 | $\$ 4$ | $\$ 25$ |
| 4 | $\$ 8$ | $\$ 29$ |
| 5 | $\$ 16$ | $\$ 33$ |
| 6 | $\$ 32$ | $\$ 37$ |
| 7 | $\$ 64$ | $\$ 41$ |

Roger will save more by the end of seven weeks ( $\$ 64$ vs $\$ 41$ ).

## Section B

6. 

| Fig \# | $\boxed{ }$ |  |  |
| :---: | :---: | :---: | :---: |
| 1 | 2 | 4 |  |
| 2 | 3 | 6 |  |
| 3 | 4 | 8 |  |
| 4 | 5 | 10 |  |
| 5 | 6 | 12 |  |
| 6 | 7 | 14 |  |

For Figure 6, you will need 14 triangles.
7. Skip count by 4 s : 4, 8, 12, 16, 20.
20th term is a O , the core starts anew at 21 st term.

8. Multiples of 5 :

75, 125, 270, 670
You can tell by looking at the ones digit: those with a 5 or 0 in the ones digit are divisible by 5 .
9. a) $3727,3827,3927$
b) $7237,8238,9239$
c) $4567,5678,6789$

## Section C

10. a) 3
b) 6
c) 9
d) 5
e) 5
f) 2
g) 4
h) 3
i) 4
j) 12
k) 10
I) 8
m) 6
n) 3

NOTE:
For the following questions, you must put the same number in both boxes.
o) 4
p) 5
11. $1+1+5=7$
$2+2+3=7$
$3+3+1=7$
12. You can rewrite this question as an equation:
$\square+\square+O=5$
The possible solutions are:
$1+1+3=5$
$2+2+1=5$
But, since the centre ring is worth more, $\mathrm{O}>\square$ so the first solution is correct.
Outside dart = 1 point
Centre dart = 2 points
13. The mystery number is 20 .

## Number Sense

Name: $\qquad$
Unit Test
Date: $\qquad$

## Section A

1. Mary Anne has 12 cookies. She gives 3 cookies to each of her friends. How many friends get cookies?
2. Aidan has 14 stamps. He puts 2 stamps on each envelope. How many envelopes does he use?
3. a) 6 grapefruits in each box; 42 grapefruits; 7 boxes.

What has been shared or divided into sets? $\qquad$ How many sets? $\qquad$
How many in each set? $\qquad$
b) 3 school buses; 30 kids; 10 kids in each school bus.

What has been shared or divided into sets? $\qquad$ How many sets? $\qquad$
How many in each set? $\qquad$
4. 5 friends share 15 tickets. How many tickets does each friend get? Show your work.
5. Write a division statement and an addition statement for the given picture:


## Number Sense

Name: $\qquad$
Unit Test
Date: $\qquad$

## Section B

6. For each question, write a multiplication or a division statement to solve the problem:
a) 18 things in total
3 things in each set
b) 5 sets 4 things in each set
$\qquad$
How many sets? $\qquad$ How many in total? $\qquad$
c) 8 sets

3 things in each set
d) 6 things in each set
12 things in total

How many in total? $\qquad$ How many sets? $\qquad$
7. Show your work for these problems in the space provided:

| a)20 people; 4 vans. <br> How many people in each van? | b) 3 marbles in each jar; 6 jars. <br> How many marbles? |
| :--- | :--- |
| c)15 flowers; 5 pots. <br> How many flowers in each pot? | d) 4 chairs at each table; 2 tables. <br> How many chairs? |

8. Find two different ways to share 9 apples equally so that one apple is left over:

## Number Sense

$\qquad$
Unit Test
Date: $\qquad$

Section B (continued)
9. For each question, carry out the steps of long division:
a)

| 5 | 2 | 4 |
| ---: | ---: | ---: |
| - |  |  |
|  |  |  |

b)

| 3 | 1 |
| ---: | ---: |
|  | 3 |
|  |  |

c)
$5)$

|  |  |
| :--- | :--- |
| 1 | 1 |
|  | 9 |
|  |  |
|  |  |

d)
10. Carry out all the steps of long division:
a)

b)
4

c)

d)

e)

f)

g)

h)

11. A canoe can hold 3 kids. How many canoes will 44 kids need?

12. Alexa put 73 apples in bags of 6 . Mike put 46 apples in bags of 4 . Who had more apples left over?



## Number Sense

Unit Test
Name: $\qquad$
Date: $\qquad$

Section B (continued)
13. Divide:

14. An equilateral triangle has a perimeter of 531 cm . How long is each side?

15. Find the mystery numbers:
a) "I am a multiple of 6 . I am greater than 21 and less than 27 ."
b) "I am divisible by 7 . I am less than 25 and I am even."
16. Name two numbers less than 20 that give a remainder of 1 when divided by 4 .
17. Four boxes hold 24 bottles. How many bottles will five boxes hold? Show your work.

## Number Sense

Name: $\qquad$
Unit Test
Date: $\qquad$

## Section C

18. Name the following fractions:
a)

b)

c)

d)

19. What fraction of the figure is the shaded piece?

$\qquad$
20. Write the fractions in order from least to greatest:
a) $\frac{2}{10}, \frac{1}{10}, \frac{7}{10}, \frac{9}{10}, \frac{5}{10}$
b) $\frac{1}{5}, \frac{1}{2}, \frac{1}{4}$
c) $\frac{2}{3}, \frac{2}{5}, \frac{2}{7}$
21. Shade one piece at a time until you have shaded the amount of pie given. There may be more pies than you need:
a) $2 \frac{1}{2}$

b) $3 \frac{1}{2}$

c) $1 \frac{3}{4}$

d) $2 \frac{2}{3}$

e) $\frac{8}{3}$

f) $\frac{13}{4}$


## Number Sense

Name: $\qquad$
Unit Test
Date: $\qquad$

Section C (continued)
22. Write these fractions as both mixed fractions and as improper fractions:
a)

$\qquad$ $=$ $\qquad$
b)

$\qquad$ $=$ $\qquad$
23. Find the fraction of each of the following numbers by writing an equivalent division statement. Then skip count to find the answer:
a) $\frac{1}{2}$ of 8
b) $\frac{1}{2}$ of 10
c) $\frac{1}{3}$ of 9
d) $\frac{1}{4}$ of 12
24. Is $\frac{2}{3}$ greater than 1 whole pie or less than 1 whole pie? How do you know?
25. Bottles come in packs of 6 . How many bottles are in $3 \frac{1}{2}$ packs?
26. Draw a picture (using dots) to show $\frac{4}{5}$ of 10 .
27. Which is greater: $2 \frac{1}{4}$ or $\frac{5}{2}$ ? Draw a picture to show your answer:
28. Add or subtract:
a) $\frac{9}{15}-\frac{3}{15}=$
b) $\frac{3}{7}-\frac{2}{7}=$
c) $\frac{7}{9}-\frac{3}{9}=$

## Number Sense

Unit Test
Name: $\qquad$
Date: $\qquad$

## Section D

29. Write a fraction for the number of hundredths. Then write a fraction for the number of tenths:
a)

b)

c)

d)


$$
\overline{100}=\frac{}{10}
$$

$$
\overline{100}=\frac{}{10}
$$

$$
\overline{100}=\frac{}{10}
$$

$$
\overline{100}=\frac{}{10}
$$

30. Fill in the chart below:

31. Write the following decimals as fractions:
a) $.2=$
b) $.35=$
c) $.04=$
d) $.8=$
e) $.6=$
f) .02
g) $.72=$
h) $.4=$
i) $.23=$
j) $.25=$
32. Change the following fractions to decimals:
a) $\frac{82}{100}=$. $\qquad$ b) $\frac{7}{100}=$ $\qquad$ c) $\frac{77}{100}=$
d) $\frac{7}{10}=$

## Number Sense

Name: $\qquad$
Unit Test
Date: $\qquad$

## Section D (continued)

33. Write a decimal for each of the mixed fractions below:
a) $1 \frac{23}{100}=$
b) $2 \frac{71}{100}=$
c) $8 \frac{7}{10}=$
d) $4 \frac{27}{100}=$
e) $3 \frac{7}{100}=$
f) $17 \frac{8}{10}=$
g) $27 \frac{1}{10}=$
h) $38 \frac{5}{100}=$
34. Write the numbers in order (from least to greatest) by first changing each decimal to a fraction with a denominator of 10 :
a) $0.7,0.3,0.5$
b) $\frac{1}{10}, 0.3,0.9$
c) $\frac{7}{10}, 0.3, \frac{4}{10}$
d) $0.7,0.8, \frac{2}{10}$
35. Line up and add or subtract the following decimals:
a) $0.32+0.17$
b) $0.64-0.23$
c) $0.67-0.2$
36. Mark each point with an ' $X$ ' and label the point with the correct letter:

A. 1.1
B. 2.5
C. 60
D. 1.9
37. Which is greater, $\frac{23}{10}$ or 2.4 ? Explain.
38. A racer snake is .36 metres long.
a) What fraction of a metre is the snake?
b) How many cm long would 2 racer snakes be if they were laid end to end?

# Number Sense 

Name: $\qquad$
Unit Test
Date: $\qquad$

## Section E

39. Sarah has $\$ 4.67$ and Uma has $\$ 5.24$. How much more money does Uma have than Sarah?
40. Ash has $\$ 25.62$. He wants to buy a present for his father for $\$ 17.38$ and a book for himself for $\$ 5.97$. Does he have enough money to buy both the book and the gift?
41. Estimate by rounding each amount to the nearest dollar before performing the operation:
42) 

\$34.21

- \$26.57

Estimate: $\qquad$
42)
$\$ 47.93$
$+\$ 12.44$
Estimate: $\qquad$
Actual:

| $\$$ |  | $\cdot$ |  |  |
| ---: | ---: | ---: | ---: | ---: |
| $-\$$ |  | $\cdot$ |  |  |
|  |  |  |  |  |

Actual:

42. Erika had $\$ 10.00$. She bought a set of pencil crayons for $\$ 7.89$. Estimate her change:
43. Fill in the blanks.
a) $\qquad$ is .1 more than .8 $\qquad$ is .1 less than .6
c) $2.3+$ $\qquad$ $=2.4$
d) 3.71 - $\qquad$ $=3.61$
e) 3.48 - $\qquad$ $=3.47$
f) $4.53+$ $\qquad$ $=4.54$

## Section A

1. 4 friends
2. 7 envelopes
3. a) Grapefruits; 7; 6
b) Kids; 3; 10
4. $15 \div 5=3$;

Each friend gets 3 tickets.
5. $15 \div 5=3$;
$5+5+5=15$

## Section B

6. a) $18 \div 3=6 ; 6$
b) $5 \times 4=20 ; 20$
c) $8 \times 3=24 ; 24$
d) $12 \div 6=2 ; 2$
7. a) $20 \div 4=5$;

5 people in each van
b) $6 \times 3=18$; 18 marbles
c) $15 \div 5=3$; 3 flowers in each pot
d) $4 \times 2=8$; 8 chairs
8. 2 groups of 4 apples OR

4 groups of 2 apples
9. a) 4 R 4
b) $4 R 1$
c) 3 R 4
d) 8 R 1
10. a) 24 R 2
b) 13 R 2
c) 13 R 1
d) 14
e) 16 R 4
f) 16
g) 32
h) 14 R 5
11. 14 R 2 ;

They will need 15 canoes.
12. Alexa: $73 \div 6=12 \mathrm{R} 1$

Mike: $\quad 46 \div 4=11 \mathrm{R} 2$
So, Mike had more apples left over.
13. 156 R 1
14. Each side of the triangle is 177 cm long ( $531 \div 3$ ).
15. a) 24
b) 14
16. Four possibilities so answers may vary: 5, 9, 13 and 17
17. Five boxes will hold 30 bottles

Approach may vary for example:
$24 \div 4=6$ bottles per box $6 \times 5=30$ bottles

## Section C

18. a) $\frac{1}{2}$
b) $\frac{1}{4}$
c) $\frac{5}{9}$
d) $\frac{3}{10}$
19. a) $\frac{2}{8}=\frac{1}{4}$
b) $\frac{1}{8}$
c) $\frac{3}{9}=\frac{1}{3}$
d) $\frac{1}{12}$
20. a) $\frac{1}{10}, \frac{2}{10}, \frac{5}{10}, \frac{7}{10}, \frac{9}{10}$
b) $\frac{1}{5}, \frac{1}{4}, \frac{1}{2}$
C) $\frac{2}{7}, \frac{2}{5}, \frac{2}{3}$
21. a)

b)

c)

d)

e)

f) $\bigoplus \bigoplus \bigoplus \bigoplus$
22. a) $2 \frac{1}{3}=\frac{7}{3}$
b) $3 \frac{1}{8}=\frac{25}{8}$
23. a) $8 \div 2=4$
b) $10 \div 2=5$
c) $9 \div 3=3$
d) $12 \div 4=3$
24. $\frac{2}{3}<1$. Teacher to check exlanation.
25. 21 bottles
26. 



## Section D

27. $\frac{5}{2}$ is greater than $2 \frac{1}{4}$

Teacher to check explanation.
28. a) $\frac{6}{15}$
b) $\frac{5}{7}$
c) $\frac{4}{9}$
29. a) $\frac{50}{100}=\frac{5}{10}$
b) $\frac{60}{100}=\frac{6}{10}$
c) $\frac{10}{100}=\frac{1}{10}$
d) $\frac{70}{100}=\frac{7}{10}$
30. $\frac{7}{10} ; .7 ; .70 ; \frac{70}{100}$

* Teacher to check drawing
$\frac{10}{10} ; 1.0 ; 1.00 ; \frac{100}{100}$
* Teacher to check drawing

31. a) $\frac{2}{10}$
b) $\frac{35}{100}$
c) $\frac{4}{100}$
d) $\frac{8}{10}$
e) $\frac{6}{10}$
f) $\frac{2}{100}$
g) $\frac{72}{100}$
h) $\frac{4}{10}$
i) $\frac{23}{100}$
j) $\frac{25}{100}$
32. a) . 82
b) .07
c) $\quad .77$
d) .7
33. a) 1.23
b) 2.71
c) 8.7
d) 4.27
e) 3.07
f) 17.8
g) 27.1
h) 38.05
34. a) $\frac{3}{10}, \frac{5}{10}, \frac{7}{10}$
b) $\frac{1}{10}, \frac{3}{10}, \frac{9}{10}$
c) $\frac{3}{10}, \frac{4}{10}, \frac{7}{10}$
d) $\frac{2}{10}, \frac{7}{10}, \frac{8}{10}$
35. a) 0.49
b) 0.41
C) 0.47
36. 


37. $\frac{23}{10}=2 \frac{3}{10}=2.3<2.4$ So 2.4 is greater.
38. a) $\frac{36}{100}$
b) 72 cm

## Section E

39. Uma has $57 \phi$ more.
40. Yes. He needs $\$ 23.36$ (<\$25.62)
41. a) Estimate:
\$34-\$27=\$7
Actual:
\$34.21
$-\$ 26.57$

## $\$ 7.64$

b) Estimate:
$\$ 48-\$ 12=\$ 60$
Actual:
$\$ 47.93$
$+\$ 12.44$
$\$ 60.47$
42. Estimate $\$ 2$ (Actual \$2.11)
43. a) .9
b) .5
c) .1
d) .1
e) .01
f) .01

Measurement
Unit Test

Name: $\qquad$
Date: $\qquad$

## Section A

1. Find the area (in square units) of each of the given shapes:

Area of $A=$ $\qquad$ units ${ }^{2}$

Area of $B=$ $\qquad$ units ${ }^{2}$

Area of $C=$ $\qquad$ units ${ }^{2}$

2. Calculate the area of each rectangle (be sure to include the units). Then, by letter, create an ordered list of the rectangles from greatest to least area. Pay attention to the units!
a)

b)

c)

d)


List of areas (by letter, from greatest to least): $\qquad$
$\qquad$
$\qquad$
$\qquad$
3. Find the area of the rectangle with the following dimensions:
a) width: $5 \mathrm{~m} \quad$ length: 7 m
b) width: 2 m length: 9 m
c) width: 6 cm length: 8 cm
4. If you know the length and width of a rectangle, how can you find its area?
5. A rectangle has an area of $10 \mathrm{~cm}^{2}$ and a length of 5 cm . What is its width? Explain how you found your answer:

Name: $\qquad$
Unit Test
Date: $\qquad$

## Section A (continued)

6. Two half squares
 cover the same area as a whole square $\square$ .

Count each pair of half squares as a whole square to find the area shaded:
a)


Area $=$ $\qquad$ whole squares
b)


Area $=$ $\qquad$ whole squares
c)


Area $=$ $\qquad$ whole squares
7. For each rectangle, estimate and then measure the length and width with a ruler. Record your answers in the chart:


| Rectangle | Estimated <br> Perimeter | Estimated <br> Area | Length | Width | Actual <br> Perimeter | Actual <br> Area |
| :---: | ---: | :---: | :---: | :---: | :---: | :---: |
| A | cm | $\mathrm{cm}^{2}$ | cm | cm | cm | $\mathrm{~cm}^{2}$ |
| B |  |  |  |  |  |  |
| C |  |  |  |  |  |  |

8. Karen wants to make a rectangular flower bed with width 2 m and length 3 m .
a) What is the perimeter of the bed?
b) Fence costs $\$ 2$ for each metre. How much will a fence for the flower bed cost?
c) Karen wants to plant 3 flowers in each square metre of the flower bed. How many flowers will she need to buy?

## Measurement

Unit Test

Name: $\qquad$
Date: $\qquad$

## Section B

9. Change the following measurements to grams:
a) $3 \mathrm{~kg}=$ $\qquad$ b) $9 \mathrm{~kg}=$
c) $17 \mathrm{~kg}=$ $\qquad$
10. A house cat weighs about 5 kg . What is its mass in grams? $\qquad$
11. A penny weighs 2 grams, a nickel weighs 4 grams and a loonie weighs 7 grams:
a) How many pennies weigh as much as 4 nickels?
b) How many loonies weigh as much as 7 nickels?
12. What unit is more appropriate to measure each iem? Circle the appropriate unit:

13. Check off the appropriate box. Would you use grams or kilograms to weigh...
a) a moose?$\mathbf{g} \quad \square \mathbf{~ k g}$
b) a desk?$\square \mathbf{k g}$
c) a piece of cheese?g
kg
d) a tiny bird?
g
kg
a) a pencil?g
kg
f) yourself?$\square \mathbf{k g}$
14. a) A baby elephant weighed 160 kilograms when it was born. It grew at a rate of 8 kilograms each week. How much did the baby elephant weigh when it was 4 weeks old?
b) Cucumber and pea seeds weigh 2 grams each and radish seeds weigh 3 grams each. Joel bought 8 cucumber seeds, 12 pea seeds and 3 radish seeds. How much did his seeds weigh altogether?

## Measurement

Unit Test
Name: $\qquad$
Date: $\qquad$

Section B (continued)
15. Change the following measurements to millilitres:
a) $5 \mathrm{~L}=$ $\qquad$ b) $2 \mathrm{~L}=$ $\qquad$ c) $12 \mathrm{~L}=$ $\qquad$ d) $47 \mathrm{~L}=$ $\qquad$
16. Circle the appropriate unit to measure the capacity of each container. Is it litres (L) or millilitres (mL)?
a)

Lor mL?
b)

L or mL?
c)
 L or mL ?
17. Which set of containers has the greatest capacity? How do you know?
a)
 OR
b)


18. For each of the following capacities, how many containers would be needed to make a litre? Explain how you know:
a) 100 mL
b) 500 mL
C) 250 mL
19. Find the volume of the shapes below. Each cube is $1 \mathrm{~cm}^{3}$. Explain how you counted the cubes you couldn't see:
a)

b)

Volume: $\qquad$ $\mathrm{cm}^{3}$
c)

Volume: $\qquad$ $\mathrm{cm}^{3}$
20. For the following smoothie recipe...
a) Circle the measurements of capacity and underline the measurements of mass.
b) Total the measurements of mass:
c) Total the measurements of capacity:

## Smoothies for 10 people:

300 grams of strawberries
2 L of soy milk 200 mL of yogurt

1 kg of bananas

## Section A

1. Area of $A=8$ units $^{2}$

Area of $B=4$ units $^{2}$
Area of $C=12$ units $^{2}$
2. a) $35 \mathrm{~m}^{2}$
b) $36 \mathrm{~cm}^{2}$
c) $50 \mathrm{~m}^{2}$
d) $56 \mathrm{~km}^{2}$

D, C, A, B
3. a) $35 \mathrm{~m}^{2}$
b) $18 \mathrm{~m}^{2}$
c) $48 \mathrm{~cm}^{2}$
4. To get the area, multiply the length by the width ( $\mathrm{A}=\mathrm{l} \times \mathrm{w}$ ).
5. Width $=2 \mathrm{~cm}$

To find, skip count by 5 's until you 'hit' 10 or divide 10 by 5 .
6. a) 6 whole squares
b) 6 whole squares
c) 8 whole squares
7. Actual measurements:

|  | $\mathbf{L}$ | $\mathbf{W}$ | $\mathbf{P}$ | $\mathbf{A}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 3 cm | 5 cm | 16 cm | $15 \mathrm{~cm}^{2}$ |
| $\mathbf{B}$ | 2 cm | 4 cm | 12 cm | $8 \mathrm{~cm}^{2}$ |
| $\mathbf{C}$ | 5 cm | 2 cm | 14 cm | $10 \mathrm{~cm}^{2}$ |

8. a) 10 m
b) $\$ 20$
c) 18 flowers

## Section B

9. a) 3000 g
b) 9000 g
c) 17000 g
10. 5000 g
11. a) 8 pennies
b) 4 loonies
12. kilograms; grams; kilograms
13. a) kg
b) kg
c) g
d) $g$
e) $g$
f) kg
14. a) 192 kg
b) 49 g
15. a) 5000 mL
b) 2000 mL
c) 12000 mL
d) 47000 mL
16. a) $L$
b) mL
c) $L$
17. Set a) has the greatest capacity - after you cross out the 'shared' containers, you are left with 2 large containers in a) and 2 small containers in b); 2 large are greater in capacity than 2 small.
18. a) 10 containers $(1000 \div 100=10)$
b) 2 containers
( $1000 \div 500=2$ )
c) 4 containers ( $1000 \div 250=4$ )
19. a) 8 cubes
b) 12 cubes
c) 27 cubes

To count the boxes you can't see, you might count the "front" and multiply by the number of layers.
20. a) Capacity:

2 L soy milk; 200 mL yogurt
Mass:
300 g strawberries;
1 kg bananas
b) $1.3 \mathrm{~kg} / 1300 \mathrm{~g}$
c) $2.2 \mathrm{~L} / 2200 \mathrm{~mL}$

Probability \& Data Management Unit Test

## Section A

1. Find the range of the following data sets:
a) $45,23,14,95,44,7$
$\qquad$
Range: $\qquad$ to $\qquad$
2. Find the mean of the following data sets:
a) $3,5,7,11,14$
b) $16,5,11,3,20$
$\qquad$
$\qquad$
Mean: $\qquad$
$\qquad$
$\qquad$
Mean: $\qquad$
3. Find the mode of the following data sets:
a) $3,8,8$

Mode: $\qquad$
c) $7,7,4,5,7,4,4,7$

Mode: $\qquad$
4. Find the median of the following data sets:
a) $3,4,10,12,17$
$\qquad$
Median: $\qquad$ Median: $\qquad$
c) $18,5,18,76,10,92$

Median: $\qquad$
c)

| Stem | Leaf |
| :---: | :---: |
| 3 | 227 |
| 4 | 3344 |
| 5 | 18889 |
| 6 | 0344 |
| Mode: |  |

Probability \& Data Management Unit Test
$\qquad$
Date: $\qquad$

## Section A (continued)

5. Mrs. Lynch gave her students a spelling test (marked out of 20) and entered the marks in the chart. Make a stem and a leaf plot of this data.

| 17 | 5 | 18 | 10 | 12 | 15 | 10 | 16 | 29 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 30 | 25 | 19 | 19 | 9 | 20 | 19 | 20 | 30 |


| Stem | Leaves |
| :--- | :--- |
|  |  |
|  |  |

$\qquad$
Date: $\qquad$

## Section B

6. What are the possible outcomes for these spinners? (The first one is done for you.)
a)

b)

c)

You spin 5,
6 or 7
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
7. You draw a ball from a box. How many different outcomes are there in each of the following cases?
a)

b)
$\qquad$

c)

d)

$\qquad$ outcomes outcomes
8. Fill in the missing numbers:
a) $\frac{1}{3}$ of 39 is $\qquad$
b) $\frac{1}{3}$ of 42 is $\qquad$
c) $\frac{1}{3}$ of 75 is $\qquad$
d) $\frac{1}{4}$ of 8 is $\qquad$
e) $\frac{1}{4}$ of 12 is $\qquad$
f) $\frac{1}{4}$ of 36 is $\qquad$
g) $\frac{1}{4}$ of 52 is $\qquad$
h) $\frac{1}{4}$ of 84 is $\qquad$
9. For each spinner below, what fraction of your spins would you expect to be red?
a)

I would expect
of the spins to be red.
b)

10. If you spun the spinner in Question 9 a) twelve times, how many times would you expect to spin red? Explain.

## Geometry

Unit Test

Name: $\qquad$
Date: $\qquad$

Section B (continued)
11. Using the words "certain", "likely", "unlikely" or "impossible", describe the likelihood of...
a)

spinning red
b)

spinning green
c)

spinning yellow
d)

spinning red
$\qquad$
$\qquad$
$\qquad$
$\qquad$
12. Describe each outcome as "impossible", "unlikely", "likely" or "certain":
a)

spinning green
$\qquad$
b)

spinning red
c)

spinning yellow
d)

spinning yellow
$\qquad$
$\qquad$
13. Explain your answer for Question 12 c ):
14. Name an event that is...
a) certain: $\qquad$
b) impossible: $\qquad$
15. Dennis and Kevin are playing with the spinner below. If they spin red, Kevin wins, if they spin yellow, Dennis wins. Is their game fair? If not who has a better chance of winning? Explain your answer.


## Section A

1. a) 7 to 95
b) 21 to 354
2. a) 8
b) 11
3. a) 8
b) 7
c) 58
4. a) 10
b) 8
c) 18
d) 25 (the average of 23 and 27)
5. 

| Stem | Leaves |
| :---: | :--- |
| 0 | 57 |
| 1 | 001568999 |
| 2 | 00059 |
| 3 | 00 |

## Section B

6. b) You spin a 1, 2, 3 or 4 .
c) You spin a 2 .
7. a) 3 outcomes
b) 2 outcomes
c) 4 outcomes
d) 6 outcomes
8. a) 13
b) 14
c) 25
d) 2
e) 3
f) 9
g) 13
h) 21
9. a) $\frac{2}{3}$
b) I would expect $\frac{1}{4}$ of the spins to be red.
10. $\frac{2}{3}$ of the spinner is Red, so $\frac{2}{3}$ of 12 spins will be red. $\frac{2}{3}$ of 12 is 8 , so 8 times should produce red.
11. a) Likely
b) Unlikely
c) Impossible
d) Certain
12. a) Unlikely
b) Unlikely
c) Likely
d) Impossible
13. Answers will vary. Sample: More than half a spinner is yellow, so it is likely to spin yellow.
14. Answers will vary.

Teacher to check.
15. The game is not fair, Kevin has a better chance of winning, since 3 out of 8 possible outcomes are red, and only 2 are yellow.
$\qquad$
$\qquad$

## Section A

1. Draw lines in the given column and row. Then circle the dot where the two lines meet:
a)

Column 1
Row 3
Column 1
Row 3
b)
Column 2
Row 3
c)

Column 1
Row 2
d)

Column 3
Row 1
2. Identify the column and row for the circled dot:
a)

- ••
Column $\qquad$
Row $\qquad$
b)
-     -         - 
-     -         -             - 

Column $\qquad$
Row $\qquad$
c)

-     -         - 
- • - - -
Column $\qquad$
Row $\qquad$
d)
- • -
- ••
Column $\qquad$
Row $\qquad$

3. Slide the dot...
a) 3 units down

b) 5 units right

c) 6 units left; 4 units down

d) 3 units right; 1 unit up

4. Slide each figure 5 boxes to the right and 2 boxes down:
a)

b)

5. Circle the pictures that do not show reflections:
a)

b)

c)

d) How do you know the figures you circled aren't reflections?

## Geometry

Unit Test

Name: $\qquad$
Date: $\qquad$

## Section A (continued)

6. Answer the following questions using the coordinate system:

|  |  |  |  |  | city |
| :--- | :--- | :--- | :--- | :--- | :--- |

A B
C
D
E
a) What would you find in square ( $\mathrm{A}, 3$ )?
b) What would you find if you travelled 2 grid squares west of the valley?
c) Give the coordinates of the city:
d) Describe how to get from the city to the lake:

e) Describe how to get from the hill to the city:
7. Use the following clues to figure out where all the children sit:


Walk 2 desks down and 1 desk right from Eric to find John's seat.
Samir is 1 desk left of Eric.
Sally is between Lars and Indra.
Walk 2 desks right and 1 desk up from Lars to find Mary's desk.
Emma is 2 desks up from Peter.
Walk 1 desk up and 1 desk left from Anne to find Janet.

## Geometry

$\qquad$
Date: $\qquad$

Section A (continued)
8. Show where the arrow or the shape would be after each turn:
a)

b)

c)

$3 / 4$ turn clockwise
e)

$1 / 4$ turn clockwise
f)

$1 / 2$ turn counter clockwise
g)

d)

1 whole turn clockwise
h)

1 whole turn counter clockwise

## Geometry

## Unit Test

## Section B

9. Match each shape to its name:

square pyramid
pyramid

cylinder
10. Fill in the chart for each figure:
11. a) Fill in the chart below:


| Property | Pentagonal Pyramid | Square Pyramid |
| :--- | :--- | :--- |
| Number of faces |  |  |
| Number of edges |  |  |
| Number of vertices |  |  |
| Number of bases |  |  |
| Shape of base |  |  |
| Shape of faces that <br> are not bases |  |  |

b) Use your work in part a) to say how the shapes are the same and how they are different.

Geometry
Unit Test

## Section C

12. 


A

B

C

D

E

F

Choose one property of 3-D figures from each list below and use them to sort the shapes above:

## List 1

Prisms
Pyramids
Have 1 base
Have 2 bases

## List 2

Has at least 1 triangular face
Has at least one rectangular face
8 edges or more
6 vertices or more.

Property
Figures with this property:

| 1. |  |
| :--- | :--- |
| 2. |  |


13. Match the description of the figure with its name:
$\qquad$ cone
A. I have 6 congruent faces.
$\qquad$ triangular prism
B. I have 5 faces: 2 triangles and 3 rectangles.
$\qquad$ cube
C. I have 4 faces. Each face is a triangle.
$\qquad$ cylinder
D. I have 2 circular bases and a curved face.
$\qquad$ triangular pyramid
E. I have 1 circular base and a curved face.

Geometry
Unit Test

Name: $\qquad$
Date: $\qquad$

## Section C (continued)

14. Draw the missing face for each net. Fill in the names of the shapes.


This is a net of a
b)


This is a net of a

## Section A

1. a)

b)

c)

d)

2. a) Column 1

Row 2
b) Column 2

Row 3
c) Column 3 Row 1
d) Column 1 Row 1
3. a)

b)

c)

d)

4. a)

b)

5. a) Not circled
b) Circled
c) Circled
d) Picture b) shows a slide, not a reflection.
The shapes are the same size and shape, but the vertices are not the same distance from the mirror line

The shapes in
Picture c) though facing opposite directions don't have the same size
6. a) Lake
b) Hill
c) $(\mathrm{D}, 4)$
d) 1 square south, then 3 squares west (or in reverse order)
e) 2 squares north, then 1 square east (or in reverse order)
7.

| Emma | Samir | Eric | Mary |
| :---: | :---: | :---: | :---: |
| Janet | Lars | Sally | Indra |
| Peter | Anne | Yen | John |

8. a)

b)

c)

d)

e)

f)

g)

h)


## Section B

9. Shapes, from left to right:

- Rectangular (or square) prism
- Square pyramid
- Cone
- Cylinder
- Triangular pyramid
- Triangular prism

10. 



| a) | PP | SP |
| :---: | :---: | :---: |
| Faces | 6 | 5 |
| Edges | 10 | 8 |
| Vertices | 6 | 5 |
| \# of bases | 1 | 1 |
| Shape of base | $\square$ |  |
| Shape of faces that are not bases |  |  |

b) Answers will vary. Description should include:

Same:

- pyramids
- both have 1 base,
- non-base faces are triangles in both shapes

Different

- \# of faces, vertices, edges
- Shape of base


## Section C

12. Answers will vary. Teacher to check.
13. E Cone

B Triangular Prism
A Cube
D Cylinder
C Triangular Pyramid
14. Pictures may vary.
a)


Triangular pyramid
b)


Hexagonal prism


[^0]:    Answer Key for Geometry - Part 2

