Jeddah Knowledge International School



MATHEMATICS REVISION PACK 2014-2015 QUARTER 3 GRADE 7

Name:	
Section:_	

A] PERCENTAGES

1. WRITE THE FOLLOWING AS FRACTIONS WITH A DENOMINATOR OF 100 AND THEN CONVERT TO A PERCENTAGE

	FRACTION	PERCENTAGE
a) 3		
b) $\frac{7}{10}$		
c) 1.8		
d) $3\frac{3}{4}$		

2. CONVERT THE FOLLOWING INTO COMMON FRACTIONS (SIMPLEST FORM) AND THEN TO A DECIMAL

	COMMON FRACTION	DECIMAL
a) 15%		
b) 135%		
c) 33 ½ %		

3. EXPRESS THE FIRST QUANTITY AS A PERCENTAGE OF THE SECOND

a) 15km, 30km	
b) 2L, 500ML	

		c) 6months, 2years			
		d) 45sec, 2minutes			
e)		hn bought a house and was v		0 000. After 3 years the value of the house entage of the old value.	is
4.	a)	30% of \$36	ANTITIES	b) 30% of 4 hours (in minutes)	
	c)	$7\frac{1}{2}\%$ of 12 hour (in minute	 es) 	d) 3.8% of 12 m (in cm)	
e)	Rya	ın scored 85% in his term ma		e 6 tests out of 20 marks each. He scored t	the
foll	lowii	ng in his first five tests: 16,	17, 16, 19 and	nd 18. Calculate what he scored in the last	test.

P	ERCENTAGE INCREASE OR DE	CREASE	
a)	Increase \$500 by 15%	b) decrease 96kg by 6%	
c)	Decrease 1200 SAR 12.5%	d) increase 150 by $5\frac{1}{2}$ %	
_			
– Pa	am earned 250 riyals per weel	. If she was given a 7 $\frac{1}{2}$ % increase. Calculate her new	weekl
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sa		. If she was given a 7 $\frac{1}{2}$ % increase. Calculate her new	weekl
	ORIGINAL AMOUNTS	If she was given a $7\frac{1}{2}$ % increase. Calculate her new ears ago. Her house increased in value by 15% and is	
sa	ORIGINAL AMOUNTS Sarah bought a house two y		now

	Jill bought a jacket at a sale for 450 riyals. If the priced was reduces by 25%. What was the original price of the jacket?			
the original price of	пе јаскет:			
B) RATIO AND PROPORTIONS				
1. EXPRESSING AS RATIOS AND	O WRITING THEM AS A FRACTION	OF THE TOTAL		
	RATIO	FRACTION		
a) 7 is to 5				
b) 0.1 is to 0.2				
c) 60g is to 1.2 kg				
d) 6mths is to 2 years				
e) 1.5 is to 1				
2. EQUAL RATIOS				
2.1] SIMPLIFY THE FOLLOWING	;			
a) 20:50				
b) $\frac{1}{3}$: 2				
c) 0.03:0.15				

d)	20 cents is to \$2	
e)	4 weeks : 1 year	

2.2) STATE IF THE FOLLOWING RATIOS ARE EQUAL OR UNEQUAL

a) 2:2.5	32 : 40	
b) 2:7	8:21	
c) 5:6	30 : 36	
d) 2:4	4:8	
e) $1:\frac{1}{3}$	15:20	

3. PROPORTIONS

3.1 FILL IN THE MISSING NUMBERS IN THE FOLLOWING PROPORTIONS

a) 2:3 = 4:____

b) 4:1 = 16:____

c) ___: 5 = 10:50

d) ___:9 = 9:27

e) 18:30 = 24:____

f) ____: 8 = 25:40

3.2 A farmer has sheep and cattle in the following ratio 5:3

- a) How many sheep does he have if he has 150 cattle?
- b) Find the ratio of sheep to the total number of animals.
- c) State the ratio of the total number of animals to the number of cattle. _____

4. USING RATIOS TO DIVIDE QUANTITIES

4.1) There are 50 marbles in a bag which divided b	petween Paul and John in the ratio 2: 3.
a) What fraction will Paul receive?	
b) How many marbles will John receive?	
c) How many marbles did Paul receive?	
4.2 If a concentrated juice to water is to be mixed get if I had 1.5 litres of concentrated juice?	in the ratio 1: 5. How many litres of juice would I
5. SCALE DIAGRAMS	
5.1 WRITE THE FOLLOWING SCALES AS RATIOS	
a) 1cm represents 2km	b) 1mm represents 4 m

5.2	IF THE SCALE 1: 50. FIND THE LENGT	TH DRAWN TO REPRESENT AN ACTUAL LENGTH O
	a) 30m	b) 350cm
<u>C] ALG</u>	EBRA : EXPRESSIONS AND EVALUATIO	<u>ons</u>
1. CON	CEPTS IN ALGEBRA	
Study t	he example below and answer the qu	estions that follow:
3x – 7	7 + y	
a)	Is the above example an Equation? G	ive a reason for your answer.
b)	State the constant term in the above	example.
c)	State the coefficient of <i>y</i> .	
d)	How many terms are found in the exa	mple?
<u>2. SIMI</u>	PLIFYING EXPRESSIONS	

a) 2x + x	
b) a + a + 2a + c	
c) 8d – 3d	
d) x + x - 2	
e) -b – 5b + b	
f) 3x + 2x – 5	
g) a + 2a + 3b – 4b	

3. ALGEBRAIC PRODUCT

3.1 SIMPLIFY USING PRODUCT NOTATION

a) 7 x d	
b) p x 2q x 3	
c) b-ax3	
d) (2a + c) x 5	

3.2 WRITE IN EXPANDED FORM

a) a^3	
b) 3a ²	
c) $(4a)^3$	
d) $a^2 + 2c^3$	

3.3 SIMPLIFY THE FOLLOWING

a) 3 x d x d	
b) 4 x a x a x a x b x b	
c) 2 x (a +a +a +a) x a	
d) 3y x 2y	
e) -3a x -4a	
f) -2a ² x 5 a	