



# Zahrat Al-Sahra'a International School

MATH Department

**GRADE 5**

Final Exam Revision Worksheet

Mr. Mustapha – Mr. Anas

Academic Year 2017-2018



Student's Name		Date	
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*NOTE: This worksheet is for extra practice before the final exam. It is very important to study from your books, copybooks, and handouts. GOOD LUCK!*

1. Determine whether the given value of the variable is a solution of the equation:	
a) $a + 12 = 23; a = 12$	b) $c \div 14 = 7; c = 84$
<b><math>24 \neq 23</math></b> <b>No</b>	<b><math>6 \neq 7</math></b> <b>No</b>
c) $\frac{1}{4}h = 2; h = 8$	d) $\frac{6}{7} + k = 1\frac{11}{21}; k = \frac{2}{3}$
<b><math>2 = 2</math></b> <b>Yes</b>	<b><math>1\frac{11}{21} = 1\frac{11}{21}</math></b> <b>Yes</b>

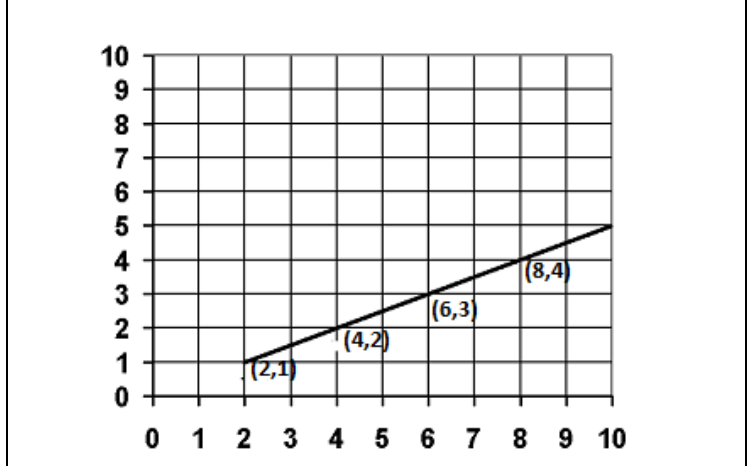
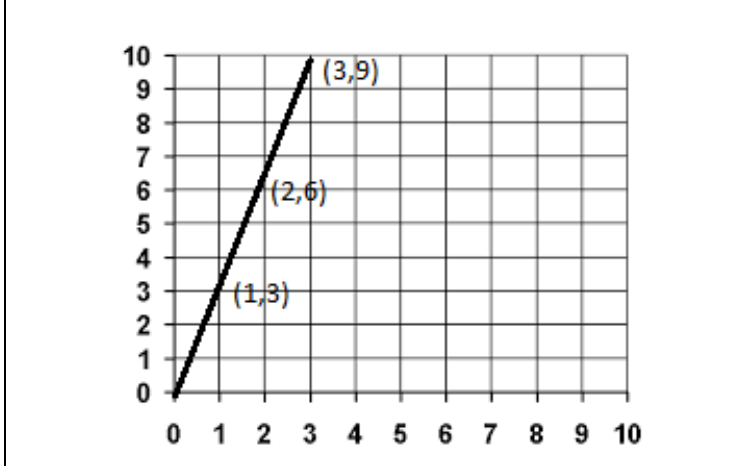
2. Solve the following equations:			
a) $p - 26 = 16$	b) $9\frac{2}{3}x = 3\frac{1}{6}$	c) $62.5 = x \div 2$	d) $m + 2.5 = 3.74$
<b><math>p - 26 + 26 = 16 + 26</math></b> <b><math>p = 42</math></b>	<b><math>x = \frac{19}{6} \times \frac{3}{29}</math></b> <b><math>x = \frac{19}{19} \times \frac{1}{29}</math></b> <b><math>x = \frac{19}{58}</math></b>	<b><math>62.5 \times 2 = x \div 2 \times 2</math></b> <b><math>x = 125</math></b>	<b><math>m + 2.5 - 2.5 = 3.74 - 2.5</math></b> <b><math>m = 1.24</math></b>

3. Use the given equation to complete each table:					
$y = 3x - 1$			$y = \frac{x}{3} + 1$		
<b>Input</b>	<b>Rule</b>	<b>Output</b>	<b>Input</b>	<b>Rule</b>	<b>Output</b>
$x$	$3x - 1$	$y$	$x$	$\frac{x}{3} + 1$	$y$
1	<b><math>3(1)-1</math></b>	<b>2</b>	3	<b><math>1+1</math></b>	<b>2</b>
2	<b><math>3(2)-1</math></b>	<b>5</b>	6	<b><math>2+1</math></b>	<b>3</b>
3	<b><math>3(3)-1</math></b>	<b>8</b>	9	<b><math>3+1</math></b>	<b>4</b>

**4. Write the linear equation for the relationship shown by the graph:**

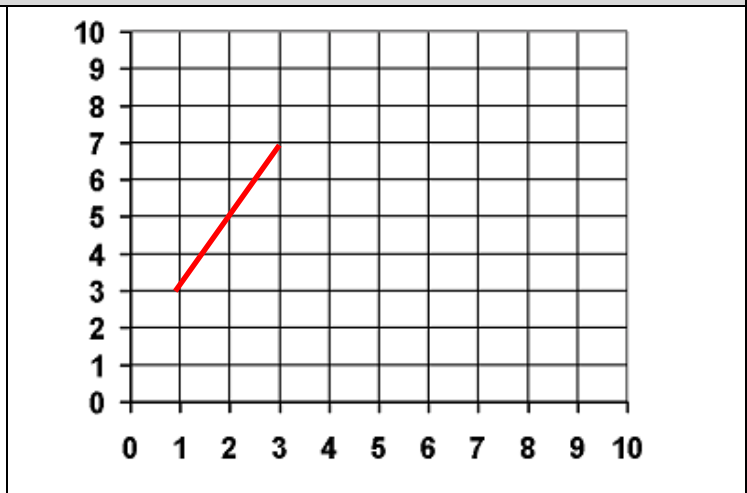
Equation:  $y=3x$

Equation:  $y = \frac{1}{2}x$



**5. Graph the linear equation:  $y = 2x + 1$**

Input	Rule	Output	Ordered pair
$x$	$2x + 1$	$y$	$(x, y)$
1	$2(1)+1$	3	(1,3)
2	$2(2)+1$	5	(2,5)
3	$2(3)+1$	7	(3,7)



**6. Write an equation for the relationship shown in the table, then find the unknown value in the table:**

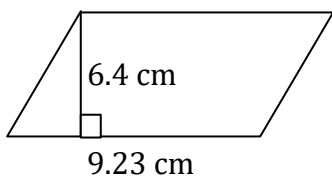
Equation:  $y = 6x$

Equation:  $y = x - 5$

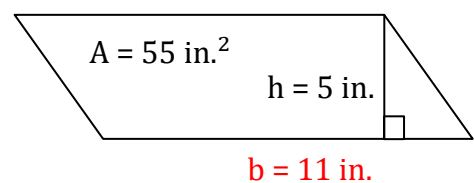
x	2	3	7	8
y	12	18	42	48

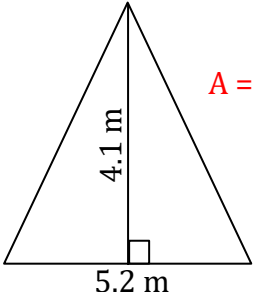
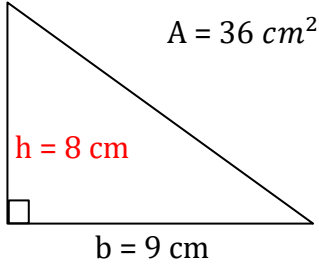
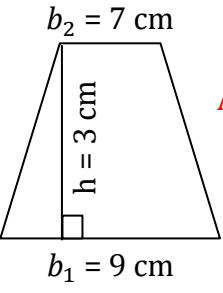
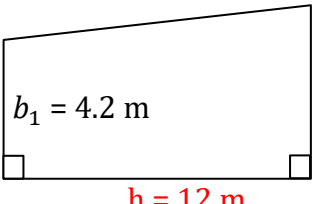
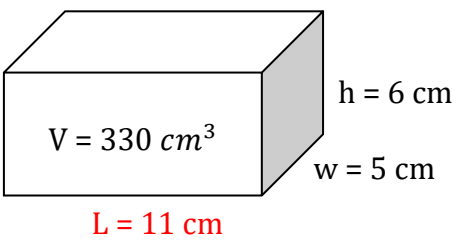
x	12	23	27	36
y	7	18	22	31

**7. Find the unknown value in the following figures:**



$A = 59.072 \text{ cm}^2$



 <p><math>A = 10.66m^2</math></p>	 <p><math>A = 36 cm^2</math></p> <p><math>h = 8 cm</math></p> <p><math>b = 9 cm</math></p>
 <p><math>A = 24 cm^2</math></p> <p><math>b_2 = 7 cm</math></p> <p><math>h = 3 cm</math></p> <p><math>b_1 = 9 cm</math></p>	 <p><math>A = 79.2m^2</math></p> <p><math>b_1 = 4.2 m</math></p> <p><math>b_2 = 9 m</math></p> <p><math>h = 12 m</math></p>
 <p><math>V = 330 cm^3</math></p> <p><math>L = 11 cm</math></p> <p><math>w = 5 cm</math></p> <p><math>h = 6 cm</math></p>	<p>Find the volume of a rectangular prism with <math>L = 12.5 mi</math>, <math>h = 2mi</math> and <math>w = 3mi</math>.</p> <p><math>V = lwh = 12.5 \times 2 \times 3</math></p> <p><math>V = 75 mi^3</math></p>

### 8. Find the Mean, Median, and Mode of: 44, 81, 73, 34, 34, 34

Mean = 50

Median = 39

Mode = 34

### 9. Problem solving

- a) The Vikings scored 7 points more than the Ravens. The Vikings scored 34 points. Write an equation could be used to find the number of points  $p$  that the Ravens scored.

$$p + 7 = 34$$

- b) A coach is ordering baseball jerseys from a website. The jerseys cost \$15 each, and shipping is \$8 per order. Write an equation to determine the total cost  $y$ , in dollars, for  $x$  jerseys.

$$y = 15x + 8$$

**Multiple Choice Questions: Choose the correct answer**

1) Find the volume of a cube of sides equal to $\frac{3}{7}$ inches?			
A) $\frac{9}{21} \text{ in}^3$	B) $\frac{6}{14} \text{ in}^3$	C) $\frac{12}{25} \text{ in}^3$	D) $\frac{27}{343} \text{ in}^3$

2) Solve $\frac{7}{9}x = \frac{9}{7}$			
A) 1	B) $1\frac{2}{9}$	C) $1\frac{32}{49}$	D) $\frac{32}{49}$

3) Find the base of a parallelogram of $A=132 \text{ m}^2$ and a height of 11m.			
A) 11m	B) 12m	C) 13m	D) 14m

4) Find the area of a trapezoid of bases 4ft and 6ft, and a height of 7ft.			
A) 35ft <sup>2</sup>	B) 70ft <sup>2</sup>	C) 105ft <sup>2</sup>	D) 140ft <sup>2</sup>

5) Solve $y - 2.51 = 41$			
A) 18.76	B) 32.21	C) 38.49	D) 43.51

6) Robert's garden has the shape of a trapezoid. The lengths of the two bases are 7m and 11m, and the height of the trapezoid is 5m. Find the area of Robert's garden			
A) 35 m <sup>2</sup>	B) 45 m <sup>2</sup>	C) 46 m <sup>2</sup>	D) 51 m <sup>2</sup>

7) Find the mode of: 17, 21, 21, 17, 18, 18, 17, 21, 17			
A) 17	B) 18	C) 21	D) 17 and 21

8) Find the median of: 101.2, 100.8, 109.7, 104.4, 108.3			
A) 101.2	B) 104.4	C) 108.3	D) 109.7

9) Thomas is looking for a value that is the solution of the equation: $x + \frac{1}{4} = \frac{3}{4}$ What is this value?			
A) $x = 0$	B) $x = \frac{1}{4}$	C) $x = \frac{1}{2}$	D) $x = 1$