

# Grade 10 MYP MATHEMATICS ASSESSMENT

Name	
Date:	

ALLOTTED TIME: 60 MINUTES NO CALCULATORS ALLOWED







Answer all the questions. Show your workings where appropriate.

Read the question and answer:

1. Simplify the following:

a) 
$$\frac{1}{4} + \frac{2}{5}$$

b) 
$$-3x + 5x + 9x^2 - 7$$

c) 
$$\sqrt{25} \times 2 + 3 - 5$$

d) 
$$3(x+5)-9$$

e) 
$$(x-2)(x+4)$$







f) 
$$\frac{a^2b^3}{4} + \frac{10b^3}{3a^3}$$

2. Evaluate the following when x=2 and y=3 and z=-3

a) 
$$4x - 2y$$

b) 
$$3x^2$$

c) 
$$-3y^2 + 3x + z$$

3. Solve for the unknown variable:

a) 
$$3(x+5)-7=17$$









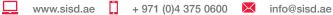
b) 
$$3x + y = 7$$
  
 $5x + 2y = 5$ 

c) 
$$\frac{x}{3} = \frac{4+x}{6}$$

d) 
$$x^2 - 8x + 12 = 0$$

4. If a circle has an area of  $36\pi$ , find the radius.





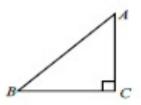




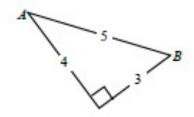




5. If CA=6 and BA=10, find the value of BC.



6. What is the value of sin A as a fraction?







7. If 3,11,7,x, and 9 hav	e a mean of $8$ , find $x$
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- 8. A fishing permit costs \$15, and an hour of fishing costs \$2.
  - a. Write an equation to represent the cost of fishing. Let C represent the cost of fishing and h represent the number of hours spent fishing.

b. Use this equation to calculate the total cost of 5 hours of fishing.







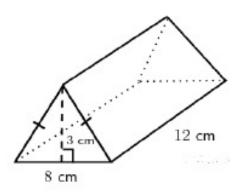








9. Find the volume of the following shape.



- Given f(x):7x-2, 10.
  - a. Calculate f(5)
  - b. Solve f(x)=12

#### Official use only:

Score out of 22	
%	

