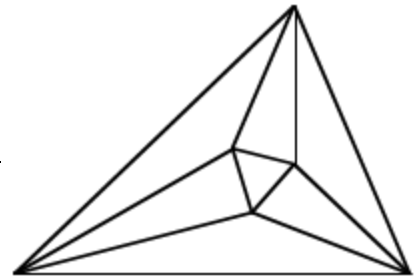
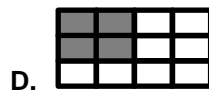
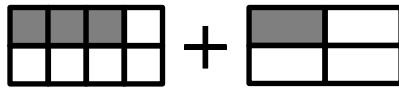


# Meet 1 – Event A 2016-17



Questions are worth 2-2-2-4-4 points respectively.  
**No calculators allowed**

\_\_\_\_\_ 1. Which model represents the sum?



\_\_\_\_\_ 2. How many factors does the number 60 have?

\_\_\_\_\_ 3. At the arcade:

- Miranda won  $m$  tickets
- Beck won 3 less than twice as many tickets as Miranda
- Jen won 25 more tickets than Beck

Choose an expression that can be used to represent the number of tickets **Jen** won at the arcade.

A.  $2m - 3 + 25$

C.  $2(m - 3) + 25$

B.  $3 - 2m + 25$

D.  $25 + (m - 3) \div 2$

\_\_\_\_\_ 4. Caitlin draws a rectangle on a coordinate plane.

- The rectangle has a perimeter of 18 units.
- Two adjacent vertices of the rectangle are  $(-2, -1)$  and  $(3, -1)$ .

\_\_\_\_\_ Name **both** possible pairs of vertices that could complete the rectangle.

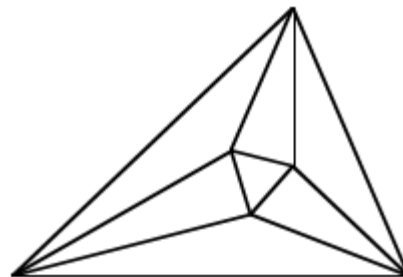
\_\_\_\_\_ 5. A supermarket opens on Tuesday morning with a total of 720 bananas in stock. Throughout the day,  $\frac{1}{3}$  of the bananas are sold. The ratio of bananas sold to pears sold is 8:3.

How many pears did the supermarket sell on Tuesday?

Name \_\_\_\_\_ School \_\_\_\_\_

# Meet 1 – Event A 2016-17

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## Answers

Questions are worth 2-2-2-4-4 points respectively.

    C     1.

   12    2.    1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60

   A    3.

**Also accept:**

$$2m - 3 + 25$$

$$2m + 22$$

 (-2, 3)  4.

 (3, 3) 

 (-2, -5) 

 (3, -5) 

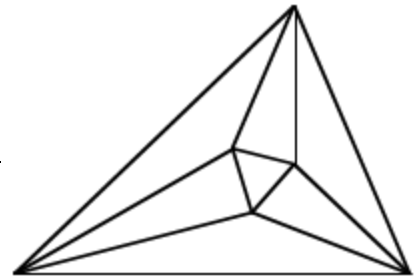
**\*1 pt. per ordered pair**

**(order does not matter)**

   90    5.     $720 \div 3 = 240$   
240 is 30 times larger than 8; **90** is 30 times larger than 3

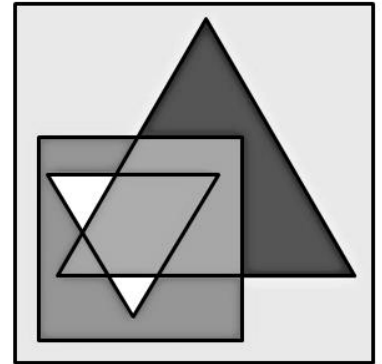
# Meet 1 – Event B 2016-17

Questions are worth 2-2-2-4-4 points respectively.  
**No calculators allowed**



- \_\_\_\_\_ 1. Which number is a multiple of 42?
- A. 6                      C. 210  
 B. 18                     D. 402

- \_\_\_\_\_ 2. What is the ratio of rectangles to triangles in the image?  
 (**Note:** The outer border of the image counts as a rectangle!)



- \_\_\_\_\_ 3. Joe and Gwen share a pizza.
- Joe eats  $\frac{3}{8}$  of the pizza.
  - Gwen eats  $\frac{1}{4}$  of the pizza.

What fraction of the pizza remains uneaten?

Write  
 answers  
 in table →

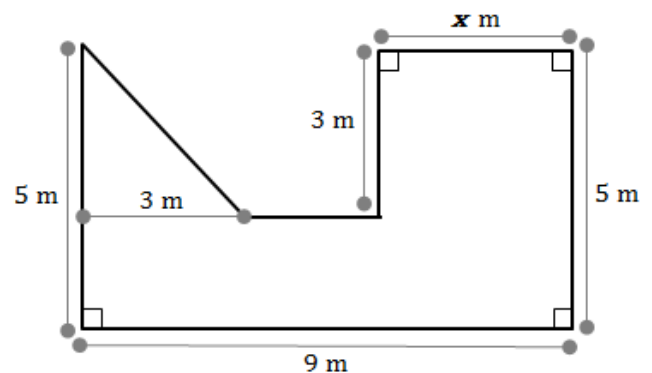
4. Steven collects rocks. He classifies each rock by size (small, medium, large) and type (granite, sandstone, shale). Use the information below to complete the table.

Steven collects:

- 5 sandstone rocks.
- half as many granite rocks as shale rocks.
- 4 times as many medium rocks as large rocks.
- a total of 20 rocks.

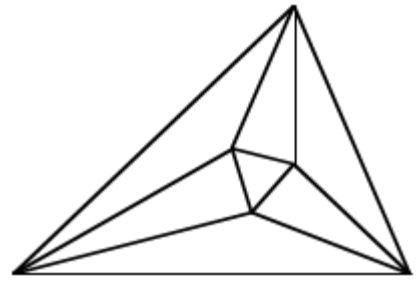
	Granite	Sandstone	Shale
Small	0	4	<input type="text"/>
Medium	3	<input type="text"/>	<input type="text"/>
Large	<input type="text"/>	0	0

- \_\_\_\_\_ m 5. A diagram of a plot of land is shown. The land has an area of 33 square meters. What is x?



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# Meet 1 – Event B 2016-17



## Answers

Questions are worth 2-2-2-4-4 points respectively.

    C     1.

Also accept:

210

     $\frac{2}{5}$      2.

Also accept:

2 to 5

2:5

     $\frac{3}{8}$      3.

$$\frac{3}{8} + \frac{1}{4} = \frac{3}{8} + \frac{2}{8} = \frac{5}{8}$$

$$1 - \frac{5}{8} = \frac{8}{8} - \frac{5}{8} = \frac{3}{8}$$

Write  
answers 4.  
in table →

\*1 pt. per cell

	Granite	Sandstone	Shale
Small	0	4	<input type="text" value="6"/>
Medium	3	<input type="text" value="1"/>	<input type="text" value="4"/>
Large	<input type="text" value="2"/>	0	0

    3.5 m     5.

Also accept:

$3\frac{1}{2}$

$\frac{7}{2}$

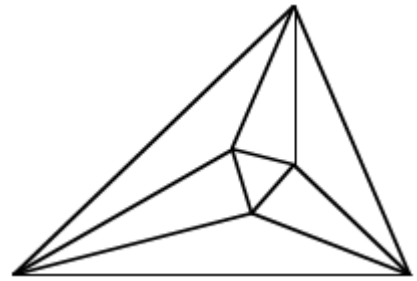
Rectangle + rectangle + trapezoid:

$$3x + 2(6) + \frac{1}{2}(3)(2 + 5) = 3x + 12 + 10.5 = 3x + 22.5$$

$$3x + 22.5 = 33; 3x = 10.5; x = \mathbf{3.5}$$

# Meet 1 – Team Event 2016-17

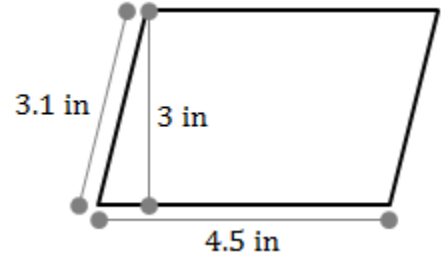
Questions are worth 4 points each.  
**No calculators allowed**



\_\_\_\_\_ 1. Evaluate.  
 $6.7 - 3! + 1.54$

\_\_\_\_\_ 2. Write the prime factorization of 528.

\_\_\_\_\_  $\text{in}^2$  3. Find the area and perimeter of the parallelogram.  
 \_\_\_\_\_  $\text{in}$



\_\_\_\_\_ 4. Simplify.  
 $\frac{1}{4} - \frac{2-3+4}{-3+2-1}$

\_\_\_\_\_ 5. Which number is being described by the following statement?  
 “six less than the product of four and the quotient of twenty and five”

**Use the following information to answer Questions 6-8.**

The table shows the number of hours of TV Connie watched last week.

Day	Hours of TV
Sunday	6
Monday	3
Tuesday	2.5
Wednesday	1
Thursday	1.5
Friday	2
Saturday	5

\_\_\_\_\_ 6. What is the **median** number of hours of TV watched by Connie?

\_\_\_\_\_ 7. What is the **mean** number of hours of TV watched by Connie?

\_\_\_\_\_ 8. Choose a situation that would affect both the **mean and median** of the data set.

- A. The number of hours for both Monday and Saturday changes to 4.
- B. The number of hours for both Monday and Friday changes to 4.
- C. The number of hours for both Tuesday and Thursday changes to 2.
- D. The number of hours for both Wednesday and Saturday changes to 3.

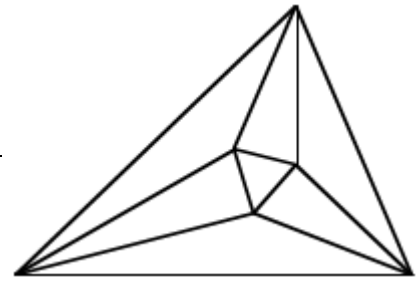
\_\_\_\_\_ 9. What is the greatest common factor of 2,415 and 3,850?

\_\_\_\_\_ 10. Circle A has a radius of 6 cm. Circle B has a radius of 8 cm.  
 What is the ratio of the **circumference** of Circle A to the **area** of Circle B? Write the ratio in lowest terms.

Name \_\_\_\_\_ School \_\_\_\_\_

# Meet 1 – Team Event 2016-17

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## Answers

Questions are worth 2-2-2-4-4 points respectively.

2.24 1.  $6.7 - 3(2)(1) + 1.54$   
 $6.7 - 6 + 1.54$   
 $0.7 + 1.54 = 2.24$

$2 \times 2 \times 2 \times 2 \times 3 \times 11$  2.

Also accept:

$2^4 \times 3 \times 11$

13.5 in<sup>2</sup> 3.  $3 \times 4.5 = 13.5$   
 $3.1 + 3.1 + 4.5 + 4.5 = 15.2$

15.2 in

$\frac{7}{4}$  4.  $\frac{1}{4} - \frac{2-3+4}{-3+2-1} = \frac{1}{4} - \frac{3}{-2} = \frac{1}{4} - \left(-\frac{3}{2}\right) = \frac{1}{4} + \frac{3}{2} = \frac{1}{4} + \frac{6}{4} = \frac{7}{4}$

Also accept:

$1\frac{3}{4}, 1.75$

10 5.  $[4 \times (20 \div 5)] - 6$   
 $4 \times 4 - 6$   
 $16 - 6 = 10$

2.5 6. 1, 1.5, 2, **2.5**, 3, 5, 6

3 7.  $1 + 1.5 + 2 + 2.5 + 3 + 5 + 6 = 21; 21/7 = 3$

B 8. .

35 9. .

$\frac{3}{16}$  10.  $\frac{12\pi}{64\pi} = \frac{12}{64} = \frac{3}{16}$

Also accept:

3:16

3 to 16