# **Released Assessment Questions, 2017** Junior Division

# Grade



# Mathematics

Assessment of Reading, Writing and Mathematics

# INSTRUCTIONS

# **Answering Multiple-Choice Questions**



Not like this:  $\otimes$  (

 $\otimes$   $\oslash$   $\bigcirc$   $\bigcirc$ 

- Use a pencil only.
- Fill only one circle for each question.
- Fill the circle completely.
- Cleanly erase any answer you wish to change.

# **Answering Open-Response Questions**

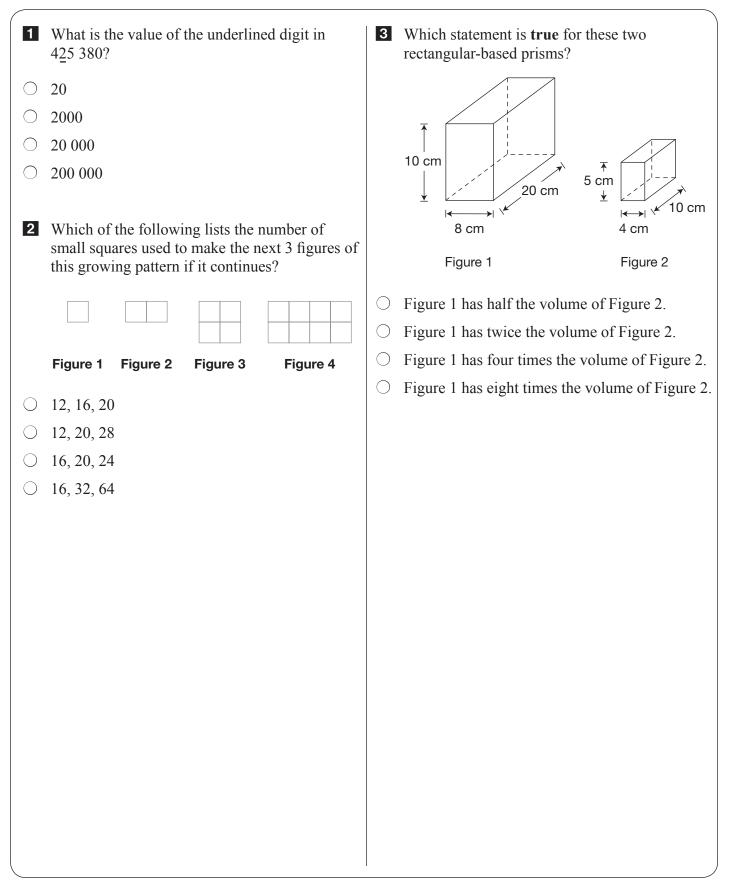
• Write on the space provided in this booklet.

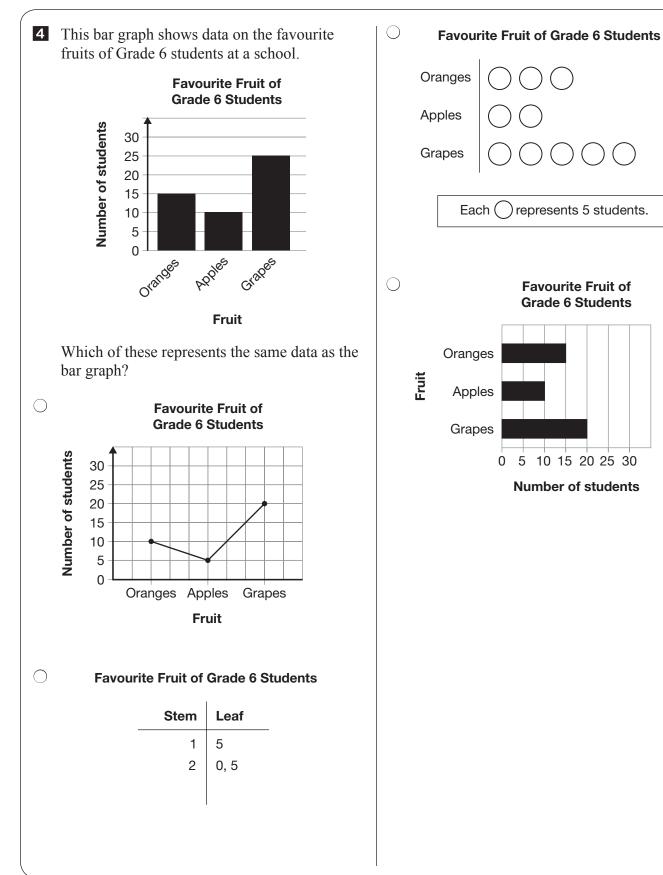
Education Quality and Accountability Office

ECAO

You are now ready to start.

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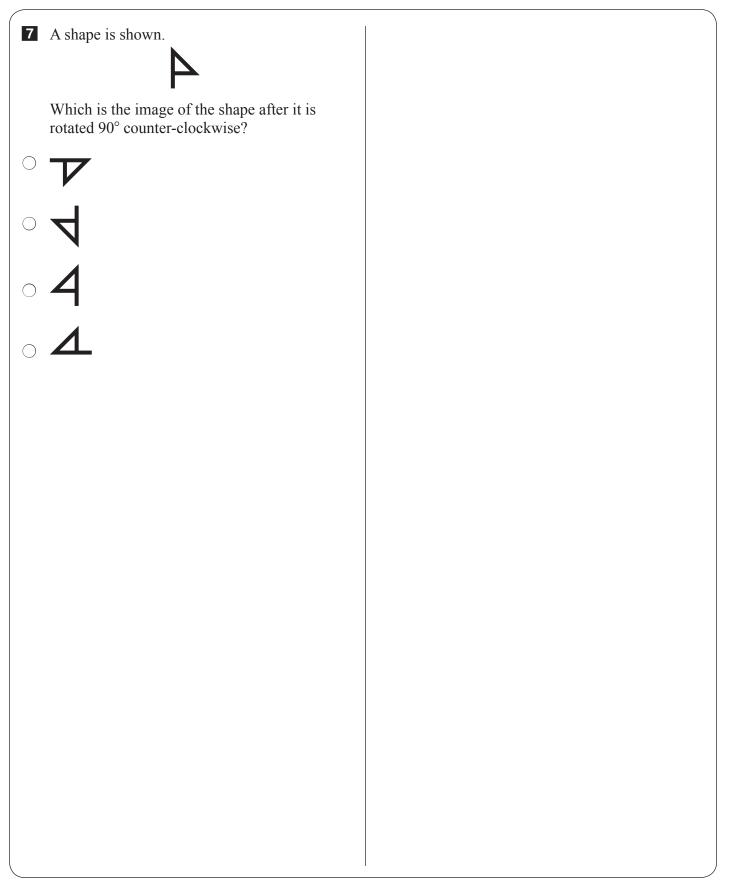
**5** This table shows information about some students who walk to school. The number of students for Grade 6 is missing.

Grade	Number of students	
4	18	
5	10	
6	?	
Total	65	

Which is closest to the percentage of students who walk to school and are in Grade 6?

- 10%
- 25%
- 50%
- 0 75%

- 6 Which value of *b* makes the equation  $b \div 4 = b - 12$  true?
- 3  $\bigcirc$
- 8  $\bigcirc$
- 16  $\bigcirc$
- 0 48



### Mathematics • Open-Response

8 Three packages have masses of 0.85 kg, 9.4 kg and 23 kg.

What is the total mass of the packages in grams?

Show your work.

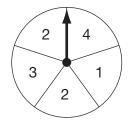
The total mass of the three packages is \_\_\_\_\_\_g.

9 Which of these experiments has an outcome with a greater theoretical probability than the others?

Experiment A: Rolling a 4 or greater on a number cube labelled 1, 2, 3, 4, 5, 6.



Experiment B: Spinning the arrow on this spinner and the arrow landing on an even number.



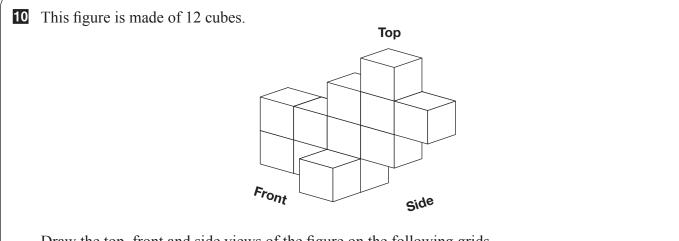
Experiment C: Selecting a marble from this bag that has an odd number written on it.



Justify your answer. Include the theoretical probabilities for all three experiments.

Experiment \_\_\_\_\_ has an outcome with a greater probability than the others.

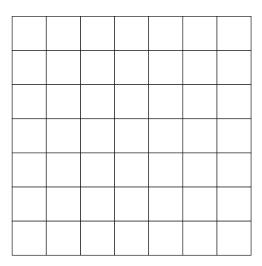
#### Mathematics • Open-Response



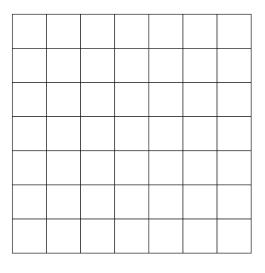
Draw the top, front and side views of the figure on the following grids.



#### **Front View**




Side View



# Mathematics • Open-Response

Packages of flags are on sale for Canada Day at two stores.

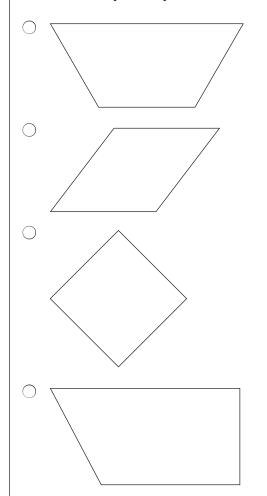
- Store A is selling a package of 5 flags for \$6.95.
- Store B is selling a package of 3 flags for \$4.80.

How much cheaper is one flag at Store A than at Store B?

Show your work.

One flag at Store A is \$\_\_\_\_\_ cheaper than at Store B.

Which quadrilateral has 2 acute angles and only 1 line of symmetry?



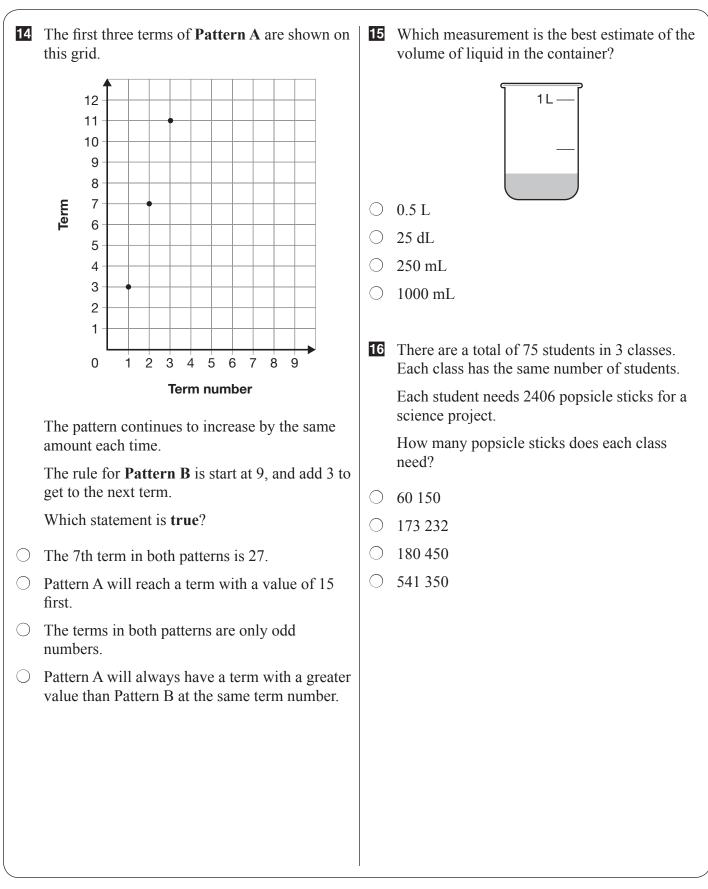
**13** This table shows the heights of 6 players on a volleyball team.

#### **Player Height**

Player	Height (cm)
Chinua	138
Zaki	132
Baina	116
Bohumir	138
Nura	126
Leslie	130
Peter	?

If the mean height of all 7 players is 128 cm, which of the following is Peter's height?

- 138 cm
- 131 cm
- 130 cm
- 116 cm



**17** This table shows the number of marbles in a bag by colour.

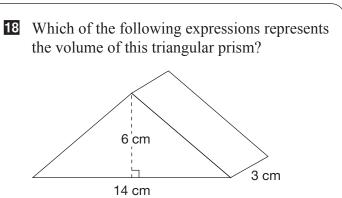
#### **Bag of Marbles**

Colour	Number of marbles
Blue	1
Green	3
Red	2
Yellow	4

One marble is randomly selected from the bag.

What is the probability of **not** selecting a yellow marble?

- 0.2
- 0.3
- $\bigcirc$ 0.4
- $\bigcirc$ 0.6



 $6 \times 14 \times 3$ 

 $14 \times 6 \div 2 \times 3$ 

 $14 + 6 + 3 \div 2$ 

 $\bigcirc 6 + 14 + 3$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

