

Released Assessment Questions, 2016

ANSWERS

Grade 9 Assessment of Mathematics • Applied

DIRECTIONS

Answering Multiple-Choice Questions

Answer all multiple-choice questions. If you fill in more than one answer to a question, or leave a question blank, the question will be scored zero. Incorrect answers will also be scored zero.

Answering Open-Response Questions

Do all of your work for each question in the space provided for the question **only**.

Write your solutions, including all calculations, clearly and completely.

ATTENTION:

There are more open-response questions in this booklet than a regular booklet.

**Record ALL
your answers to
multiple-choice and
open-response questions
in this booklet.**

Education Quality and
Accountability Office



You are now ready to start.



Please read the questions in the *Question Booklet*; then fill in your answers below.

To indicate your answer, use a pencil to fill in the appropriate circle below completely.

Like this: ●

Not like this: ⊗ ✓ ◐ ○

Cleanly erase your answer if you wish to change it and fill in the circle for your new answer.

Fill in only **one** circle for each question.

1 (a) (b) (c) (d)

2 (a) (b) (c) (d)

3 (a) (b) (c) (d)

4 (a) (b) (c) (d)

5 (a) (b) (c) (d)

6 (a) (b) (c) (d)

7 (a) (b) (c) (d)

8 (a) (b) (c) (d)

9 (a) (b) (c) (d)

10 (a) (b) (c) (d)

11 (a) (b) (c) (d)

12 (a) (b) (c) (d)

13 Hamburgers and Hot Dogs

At a local event, the ratio of hamburgers to hot dogs sold is 5:3.

The number of hamburgers sold is 275.

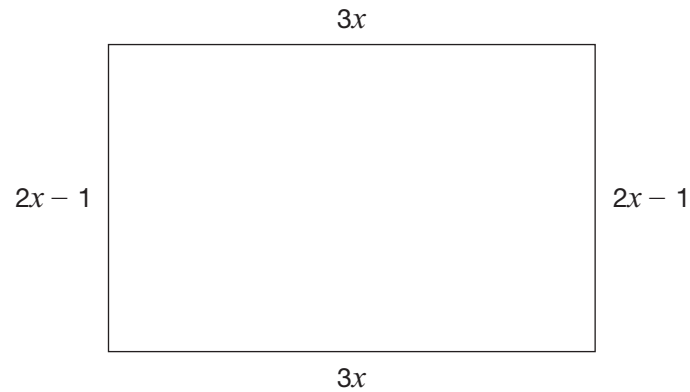
How many **more** hamburgers than hot dogs are sold?

Show your work.

There are _____ more hamburgers than hot dogs sold.

14 Great Lengths

The rectangular yard pictured below has algebraic expressions for its side lengths, in metres.



The perimeter of the yard is 126 m.

Complete the equation below so that it represents the perimeter of the yard.

$$126 = \underline{\hspace{10cm}}$$

Determine the value of x using your equation.

Show your work.

The value of x is $\underline{\hspace{2cm}}$.

15 Signed, Sealed and Delivered

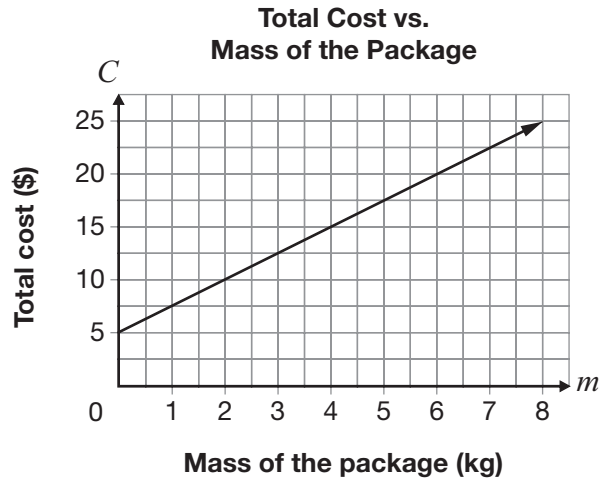
Two companies deliver packages. Information about the total cost, C , in dollars, for each company is given below.

Flash Delivery

$$C = 3d$$

d represents the distance the package is shipped, in **kilometres**

Express Delivery

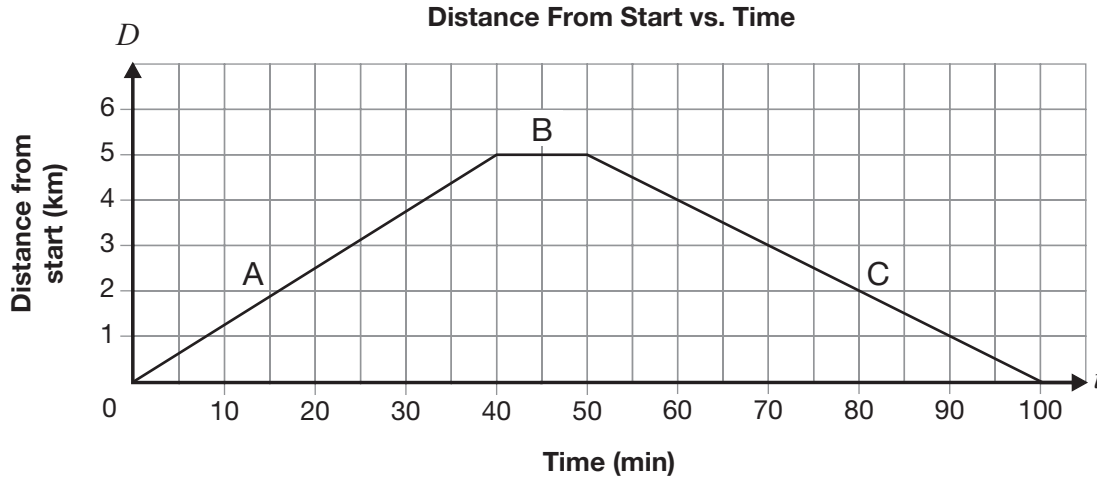


Complete the chart below by determining the initial value and the rate of change for each company. Describe the meaning of the rate of change in each situation.

Flash Delivery	Express Delivery
Initial value: _____	Initial value: _____
Rate of change: _____	Rate of change: _____
Meaning of the rate of change in this situation:	Meaning of the rate of change in this situation:

16 Charity Walk

Emily participates in a 10 km charity walk, where the walkers follow a straight path from the start then return along the same path to the finish. This graph shows the relationship between Emily's distance from the start and her time.

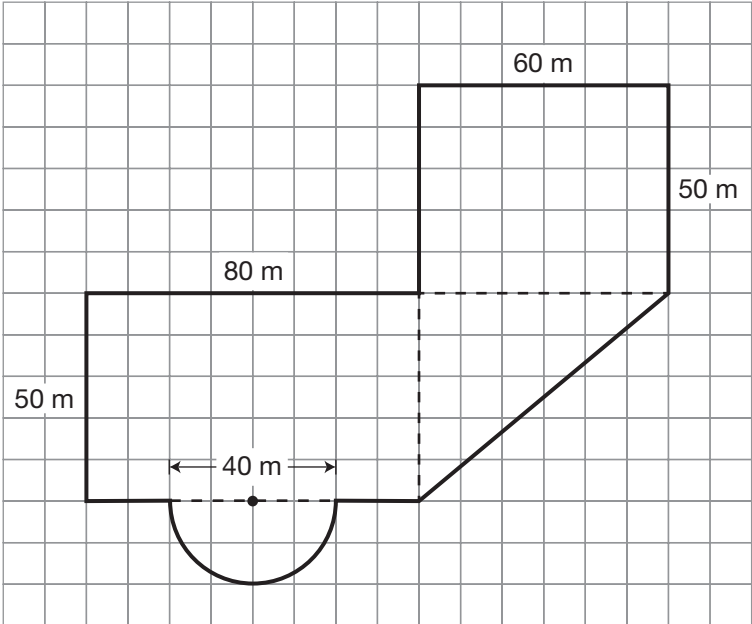


Describe each segment of her walk. Include information about distance travelled, time, speed in km/min and direction.

Segment	Distance travelled	Time	Speed (km/min)	Direction
A				
B				
C				

17 Grid School

The diagram on the grid below represents the shape of a school.

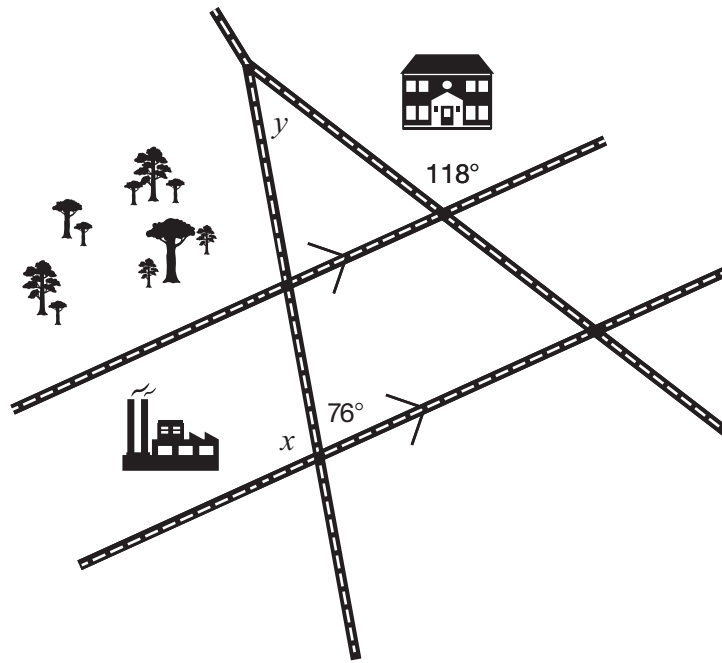


Determine the total area of the shape of the school.

Show your work.

18 Magnificent Map

A map is pictured below.



Complete the table below with the values of x and y . Justify your answers using geometric properties.

Value	Justification using geometric properties
$x =$ _____	
$y =$ _____	



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Not like this: ⊗ ✓ ◐ ○

Cleanly erase your answer if you wish to change it and fill in the circle for your new answer.

Fill in only **one** circle for each question.

19 (a) (b) (c) (d)

20 (a) (b) (c) (d)

21 (a) (b) (c) (d)

22 (a) (b) (c) (d)