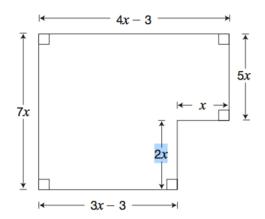
Unit 10 Day 1 Exam Review (A sample of old EQAO Questions)

Floored Areas

The diagram of the floor shown below has algebraic expressions for the lengths of its sides, in metres.



Determine an unsimplified expression for the **total area** of the floor, A, in m^2 .

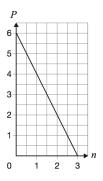
Simplify your expression fully. Show your work.

- If the total area equals $26x^2 + 43x + 77$, solve for x.
- Write a simplified expression for the Perimeter of the floor above.
- If the Perimeter of this floor is 236 m, what is the value of x?
 - 15 Information about four different linear relationships between C and n is shown below.

20 Which equation correctly uses the Pythagorean theorem to determine the value of x in the diagram?



8 Consider the graph below.



Which of the following is an equation representing this graph?



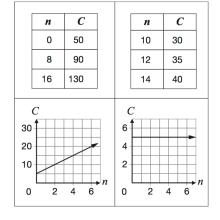
b
$$P = \frac{1}{2}n + 0$$

c
$$P = -2n + 6$$

d
$$P = -\frac{1}{2}n + 6$$



- **b** 3
- **c** 2
- **d** 1



How many of the linear relationships have a rate of change of 5?





b $x = \sqrt{2 - 0.25}$

a $x = \sqrt{2 + 0.25}$

c $x = \sqrt{2^2 + 0.25^2}$

d $x = \sqrt{2^2 - 0.25^2}$

4 Which of the following is equivalent to

$$3(5x-1)-2(3x+5)$$
?

- 9x 13
- 9x + 4b
- 21x 13C
- 21x + 4d

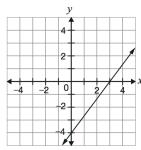
- dollars, can be represented by the equation C = 60t + 30, where t is the repair time in hours.

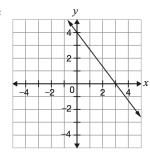
18 The total cost to repair a fridge, C, in

Which of the following statements is true about this relationship?

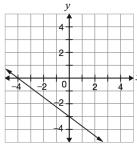
- The hourly rate is \$90.
- b The fixed fee is \$90.
- The hourly rate is \$60, and the fixed fee is \$30.
- The hourly rate is \$30, and the fixed fee is \$60.

16 Which graph shows a line that is perpendicular to the line $y = \frac{4}{3}x - 4$?

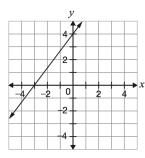




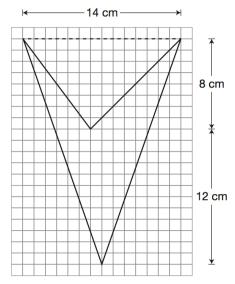
b



d



19 What is the area of the shape represented below?



- $a 28 \text{ cm}^2$
- 56 cm^2
- 84 cm^2
- 168 cm^2