

Important Concepts . . .

Preview Review



Mathematics Grade 7
W3 - Quiz

Important Concepts of Grade 7 Mathematics

W1 - Lesson 1	Divisibility Rules
W1 - Lesson 2	Decimal Numbers
W1 - Lesson 3	Fractions
W1 - Lesson 4	Improper Fractions, Mixed Numbers, Percents, and Decimals
W1 - Lesson 5	Integers, Number Lines, and Sequencing
W1 - Quiz	
W2 - Lesson 1	Table of Values and Graphing Linear Equations
W2 - Lesson 2	Modeling Expressions, Equations, and the Preservation of Equality
W2 - Lesson 3	Algebra and Linear Equations
W2 - Lesson 4	Statistics
W2 - Lesson 5	Circle Graphs and Calculating Probability
W2 - Quiz	
W3 - Lesson 1	Circles
W3 - Lesson 2	Area of Triangles and Parallelograms
W3 - Lesson 3	Line Segments
W3 - Lesson 4	Parts and Plotting on a Cartesian Plane
W3 - Lesson 5	Transformations
W3 - Quiz	

Materials Required

Math Set
Calculator

**No Textbook
Required**

**This is a stand-
alone course.**

Mathematics Grade 7

Version 6

Preview/Review W3 - Quiz

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Publisher: Alberta Distance Learning Centre

Written by: Sandy

Reviewed by: Barb Philips

Project Coordinator: Donna Silgard

Preview/Review Publishing Coordinating Team:

Laura Renkema and Nicole McKeand



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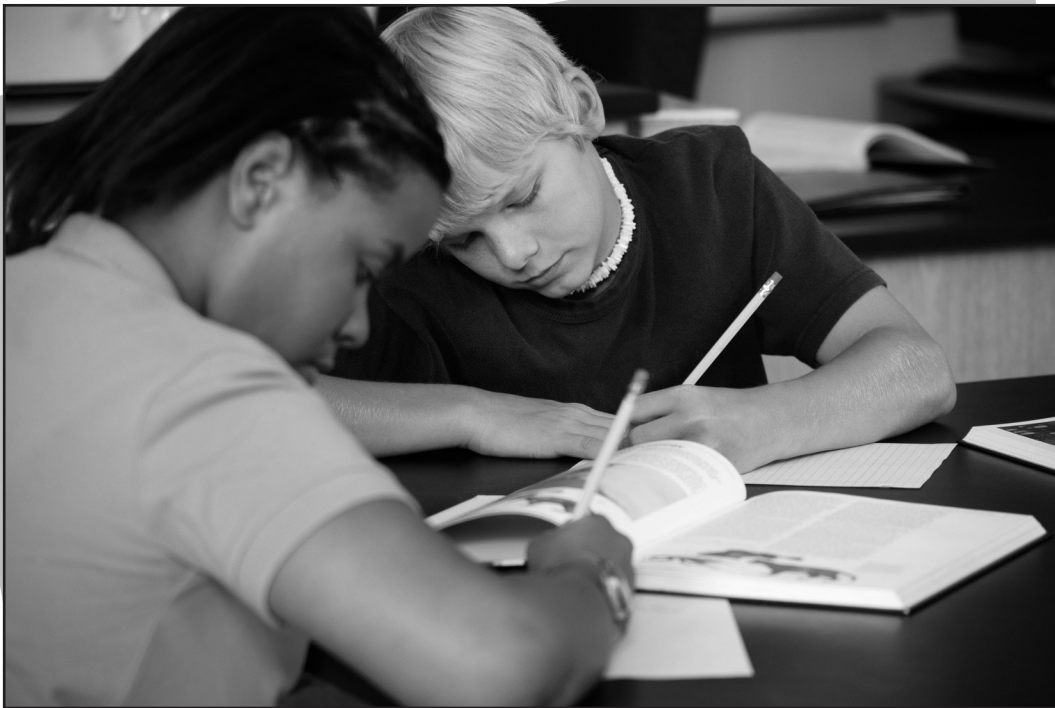
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Preview/Review Concepts for Grade Seven Mathematics



W3 - Quiz:

Value **W3 - Quiz**
50

1. The diameter of a wheel is 35cm. A rock stuck in the wheel creates a scratch on the floor every time it hits.

3

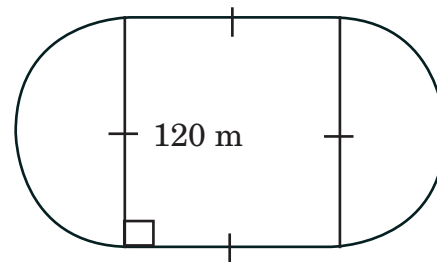
- a. How far apart will the scratches be on the floor?

3

- b. How many scratches would there be if the wheel travelled 50m (1m = 100cm)?

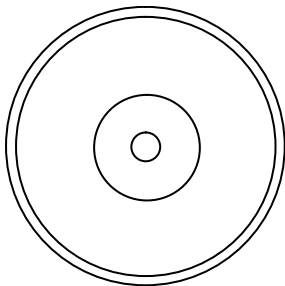
5

2. What is the total distance of this track?



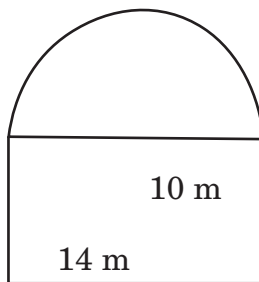
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3. In their study of trees, a class measured the growth rings within a trunk. If the center ring has a **diameter** of 8cm and the next layers were 9cm, 7cm, 5cm, 3cm and 1cm, what was the **circumference** of the tree trunk?

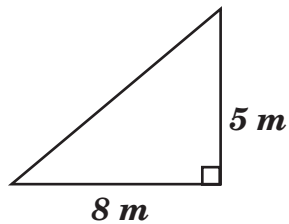


- 3 4. A piece of wood cut into a parallelogram coffee table has an area of 48 dm^2 . What are three possible whole number measurement combinations of the table? (Example: 10×5)

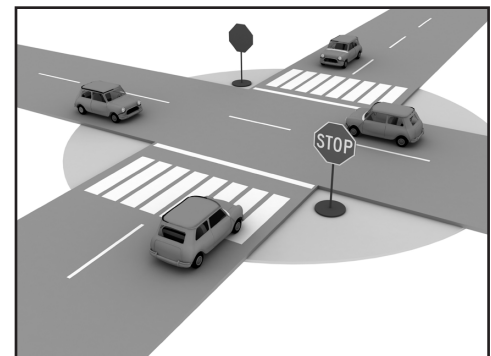
- 7 5. A stained-glass window is a rectangle and a half circle as shown. What is the area of glass needed?



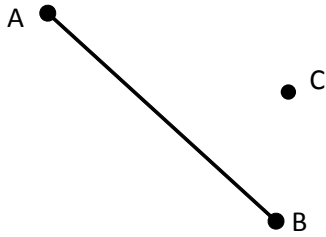
- 3 6. What is the area of the following triangle?



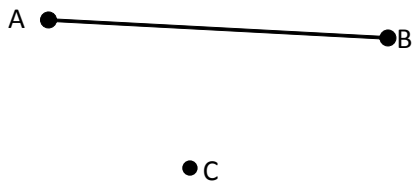
- 2 7. Pam says an intersection is a great example of parallel lines. Is she correct? Why or why not?



- ② 8. Draw a line segment passing through point C that is parallel to \overline{AB} . Show your work



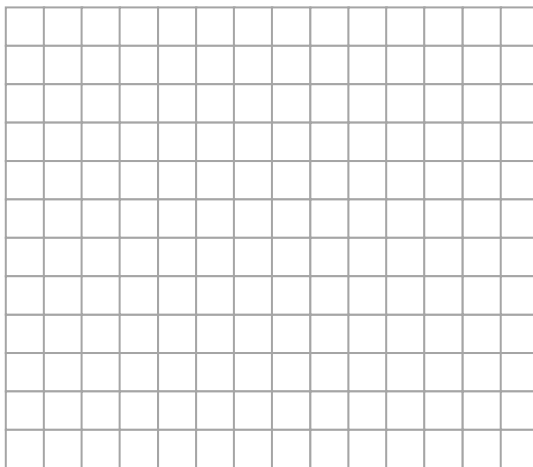
- ② 9. Draw a line segment passing through point C that is perpendicular to \overline{AB} . Show your work.



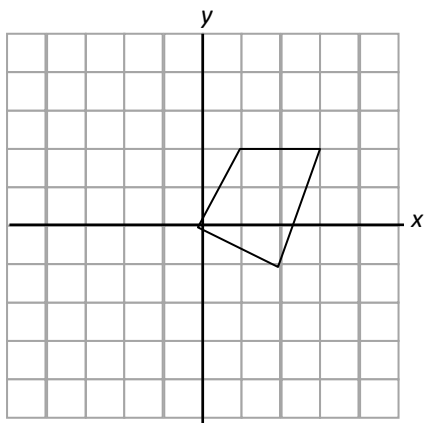
- ② 10. a. Draw a Cartesian plane using an appropriate unit for the axes.

- ⑤ b. Plot the following points.

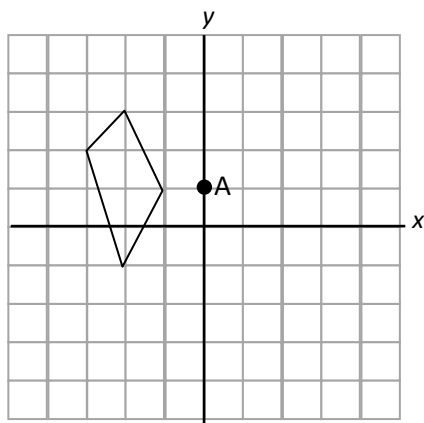
$(-20, 20), (-25, 10), (-20, -10), (-15, 0), (-5, -15), (5, 5), (10, -10), (25, 15), (5, 20)$



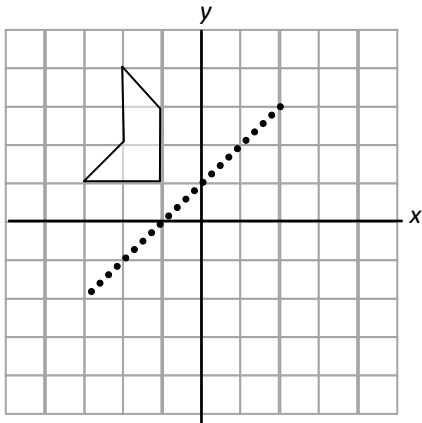
- ② 11. Translate the figure $(-3, -4)$.



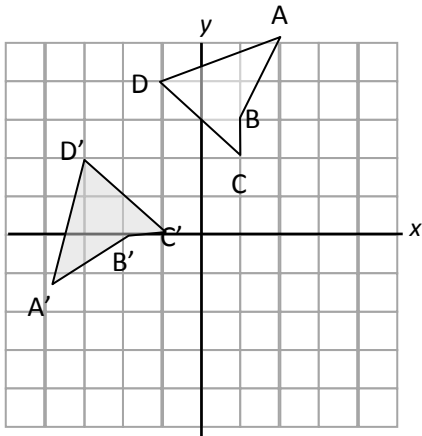
- ② 12. Rotate the figure -270° about point A.



- ② 13. Reflect the figure across the given line.



- ② 14. Draw the line of reflection.





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