

Important Concepts . . .

Preview Review



Mathematics

Grade 6

W2 - Quiz

Important Concepts of Grade 6 Mathematics

W1 - Lesson 1	Basic Facts, Basic Operations, and Integers
W1 - Lesson 2	Place Value, Whole Numbers, Decimals, and Common Fractions
W1 - Lesson 3	Improper Fractions and Mixed Numbers
W1 - Lesson 4	Ratios and Percents
W1 - Lesson 5	Number Operations with Decimals
W1 - Quiz	
W2 - Lesson 1	Factors, Multiples, and Prime Factorizations
W2 - Lesson 2	Metric Measurement
W2 - Lesson 3	Perimeter and Area
W2 - Lesson 4	Surface Area and Volume
W2 - Lesson 5	Working with Angles and Drawing Objects and Shapes
W2 - Quiz	
W3 - Lesson 1	Transformations
W3 - Lesson 2	Bar Graphs, Line Graphs, and Circle Graphs
W3 - Lesson 3	Collecting and Analyzing Data
W3 - Lesson 4	Number Patterns, Magic Squares, and Problem Solving
W3 - Lesson 5	Probability and Outcomes
W3 - Quiz	

Materials Required: A textbook is not needed. This is a stand-alone course.

Mathematics Grade 6
Version 5
Preview/Review W2 - Quiz

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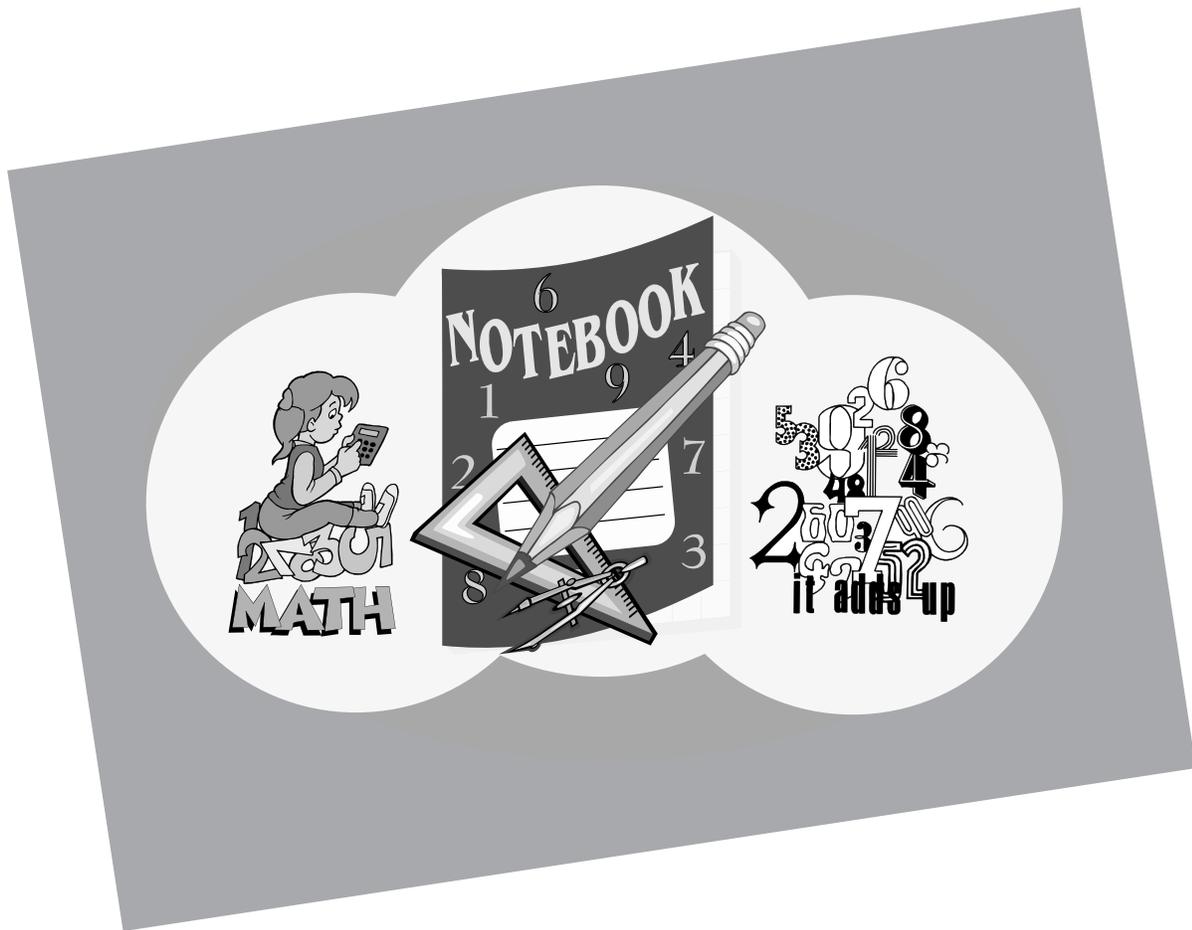
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Preview/Review Concepts for Grade Six Mathematics



W2 - Quiz

W2 - Quiz**Score: /50**

1. Label the following numbers as **prime** or **composite**.

a. 17 _____ b. 69 _____ c. 237 _____

2. Use the factor tree method to show the prime factors for the following numbers.

64

72

3. What is the greatest common factor (GCF) for the group of numbers?
14, 28, 42, and 98.

4. What is the Least Common Multiple (LCM) for the group of numbers: **4, 6, 8, and 12?**

5. Next to each measurement on the right, place the letter that represents the most appropriate unit of measure. Use each unit of measure only once.

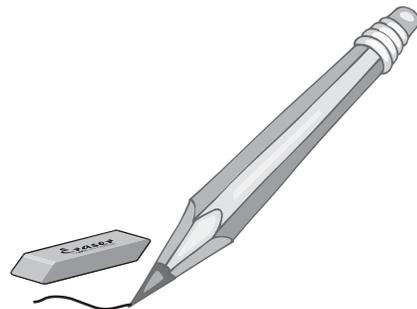
a. kilograms	_____	the length of a chocolate bar
b. litres	_____	the mass of a truck
c. decametres	_____	the volume of a milk carton
d. tonnes	_____	the weight of a person
e. centimetres	_____	the amount of Vitamin C in broccoli
f. millilitres	_____	the length of a wall in your living room
g. grams	_____	the circumference of Earth
h. kilometres	_____	the mass of a bag of marshmallows
i. metres	_____	the volume of water in a drinking glass
j. milligrams	_____	the length of a house
k. hectograms	_____	
l. decigrams	_____	

6. Make each of the following statements true by placing the correct sign (= or < or >) in the blanks below.

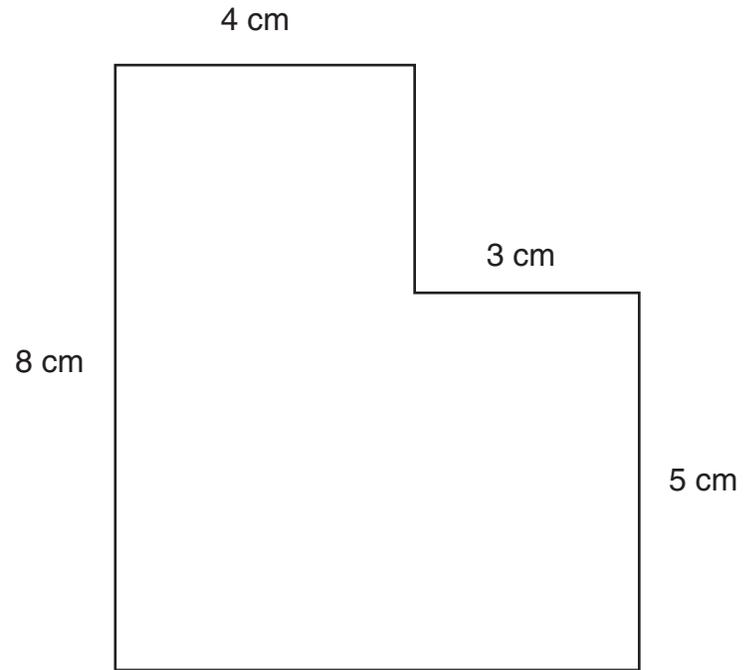
- a. 2 kg _____ 242 g
- b. 18 L _____ 1 800 mL
- c. 45 t _____ 450 000 kg
- d. 280 mL _____ 0.25 L
- e. 345 cm _____ 3 m
- f. 2 456 g _____ 2.2 kg
- g. 2 km _____ 300 m

7. Convert the following measurements.

- a. 34 g = _____ mg
- b. 85 cm = _____ m
- c. 2 t = _____ kg
- d. 8 km = _____ cm
- e. 2.55 L = _____ mL
- f. 11 cm = _____ mm
- g. 1 980 mg = _____ g



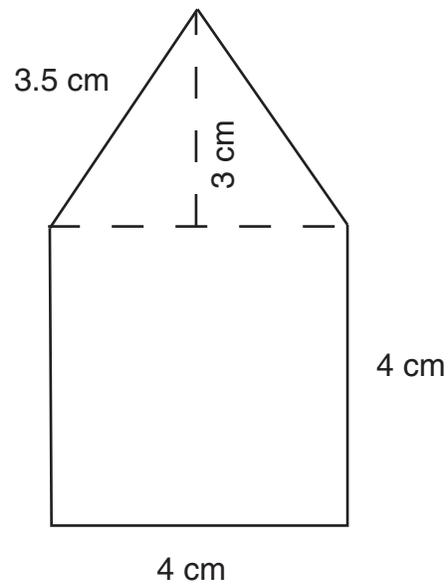
8. What is the area and perimeter of the following figure?



Area = _____

Perimeter = _____

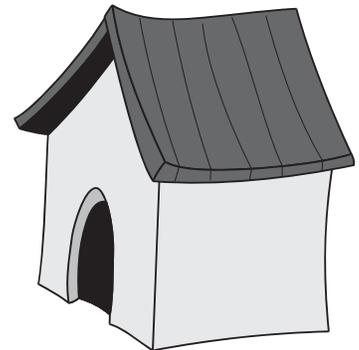
9. What is the area and perimeter of the following polygon?



Area = _____

Perimeter = _____

10. Daphne and her brother built a special doghouse for her French poodle. The shape of the doghouse was a rectangular prism. The dimensions of the doghouse were 50 cm by 45 cm by 35 cm. On the front of the doghouse (50 cm by 45 cm) was an ornate silver metal grill. This decorative door cost \$111.95. The floor of the doghouse was 50 cm by 35 cm.
- a. Daphne and her brother used plywood to build the dog house. A half sheet of plywood was big enough to do this project. The plywood cost \$34.50. Calculate the area (in square centimetres) of plywood needed to build the doghouse. (Remember: Daphne and her brother needed plywood for only five sides because the front of the doghouse was covered with the silver grill.)
- b. Daphne lined the floor of the doghouse with woolen fleece. Calculate the area of fleece needed to cover the floor.



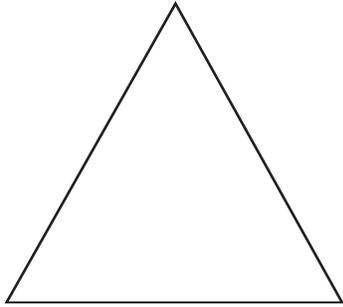
c. If the fleece cost one cent per cm^2 , what did Daphne pay to cover the floor of the doghouse with woolen fleece?

d. Daphne and her brother painted the plywood black and white. The paint cost \$15.48. Additional building supplies cost \$10.00. Daphne bought her poodle three toys that cost \$5.99, \$11.49, and \$16.75. What was the total cost of building the doghouse, lining the floor, and buying the toys?

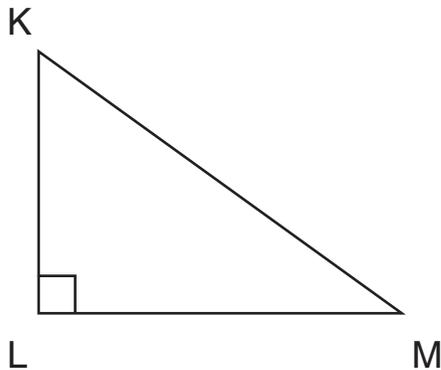


e. When Daphne and her family moved to a new house, Daphne set the doghouse on end and filled it with her poodle's food. What volume of dog food was needed to fill the upright doghouse?

11. This triangle is an equilateral triangle. What is the measurement of each of the three angles? You can calculate this without a protractor.



12. What is the measurement of angle **K** if angle **M** is 32° ? You can calculate this without a protractor.



Place the correct letter for the **BEST** answer in the blank before each question.

- _____ 13. The sum of all four angles in a quadrilateral is
- a. 90°
 - b. 180°
 - c. 360°
 - d. 540°
- _____ 14. A triangle with two sides that are the same length is called
- a. an isosceles triangle
 - b. a scalene triangle
 - c. an acute triangle
 - d. an obtuse triangle
- _____ 15. A square can also be categorized as a rectangle.
- a. true
 - b. false



