PERIMETER

A LENGTH UNITS

A.1 CHOOSING LENGTH UNITS

MCQ 1: Which unit will be used to measure how long a pencil is?

Choose 1 answer:

- \Box Millimeters
- \Box Centimeters
- \Box Meters
- $\Box\,$ Kilometers

MCQ 2: Which unit will be used to measure the distance between two cities? Choose 1 answer:

 \Box Millimeters

- \Box Centimeters
- \Box Meters
- \Box Kilometers

MCQ 3: Which unit will be used to measure how tall a tree is?

Choose 1 answer:

- \Box Millimeters
- \Box Centimeters
- \Box Meters
- $\Box\,$ Kilometers

MCQ 4: Which unit will be used to measure the length of an ant?

Choose 1 answer:

- \Box Millimeters
- \Box Centimeters
- \Box Meters
- \Box Kilometers

MCQ 5: Which unit will be used to measure how long a book is?

Choose 1 answer:

- \hfillimeters
- \Box Centimeters
- \Box Meters
- \Box Kilometers

A.2 MEASURING







B.2 CONVERTING UNITS OF LENGTH WITH DECIMAL NUMBERS

 $2.3 \,\mathrm{km} =$ m.

 $1.60 \,\mathrm{m} =$ cm.

 $22.5 \,\mathrm{cm} =$ mm.

 $185 \,\mathrm{cm} =$ m.

 $2\,300\,\mathrm{m} =$ km.

 $42.2 \,\mathrm{km} =$ m.

B.3 SOLVING PROBLEMS WITH UNIT CONVERSIONS

MCQ 24: Hugo and Louis go walking. Louis walks 5 000 meters, and Hugo walks 4.2 kilometers. Who did the longest walk?

MCQ 25: A giraffe is 5.1 meters tall, and a horse is 200 centimeters tall. Which animal is taller?

MCQ 26: A snake is 3.8 meters long, and a crocodile is 400 centimeters long. Which animal is longer?

MCQ 27: Emma walks 2.7 km to school, and Liam walks 3 000 meters to school. Who walks farther?



C PERIMETER



C.1 FINDING PERIMETER OF A SHAPE

Ex 28: What is the perimeter of the shaded figure?











Ex 31: What is the perimeter of the shaded figure?



C.2 FINDING PERIMETER WHEN GIVEN SIDE LENGTHS

Ex 32: What is the perimeter of the right angle triangle?



Ex 33: What is the perimeter of the rectangle?



Ex 34: What is the perimeter of the scalene ?



Ex 35: What is the perimeter of the parallelogram?



C.3 BUILDING EXPRESSIONS

MCQ 36: Which of the following expressions can be used to find the perimeter of the square? All sides are the same length.



Choose 2 answers:

 $\Box 4 \times 3$

 \Box 4+3

 \Box 3 + 3 + 3 + 3

 \Box 3 + 3

MCQ 37: Which of the following expressions can be used to find the perimeter of the equilateral triangle? All sides are the same length.



Choose 2 answers:

 \Box 5+3

 \Box 3 × 5

 $\Box 5 + 5 + 5$

 \Box 5+5





Choose 2 answers:

 $\Box 2 + 4$ $\Box (2 \times 2) + (2 \times 4)$

 $\Box 4 + 4 + 2 + 2$

 $\Box 4 \times 2$

C.4 FINDING PERIMETER WHEN GIVEN SIDE LENGTHS USING CONVERSION UNIT LENGTHS

Ex 39: What is the perimeter of the rectangle?



Ex 40: What is the perimeter of the triangle?



Ex 41: What is the perimeter of the parallelogram?



Ex 42: What is the perimeter of the square in meters?



D PERIMETER OF COMMON SHAPES

D.1 FINDING PERIMETERS OF SQUARES AND RECTANGLES

Ex 43: What is the perimeter of the square?





Ex 44: What is the perimeter of the square?











D.2 FINDING CIRCUMFERENCES







Ex 51: What is the perimeter of the circle with a diameter of 2 millimeters?



D.3 SOLVING PROBLEMS

Ex 52: A farmer wants to build a fence around a rectangular field that measures 30 m by 20 m. The cost of the fence is 10 dollars per meter. What is the total cost to build the fence around the field?



Ex 53: A park manager wants to install a pathway of lights around a square park that has a side length of 50 m. The cost of installing the lights is 15 dollars per meter. What is the total cost to install the lights around the park?





F PERIMETER OF COMPOSITE FIGURES



F.1 FINDING THE PERIMETER OF COMPOSITE FIGURES

Ex 64: Find the perimeter of the star:



Ex 65: Find the perimeter of the composite figure:











Ex 68: Find the perimeter of the figure



F.2 FINDING THE PERIMETER OF COMPOSITE FIGURES

Find the perimeter of the composite figure: Ex 69: 10'mP =m (round to 1 decimal place) Find the perimeter of the composite figure: Ex 70: ←1.5 cm→ m (round to 1 decimal place) P =Find the perimeter of the composite figure: Ex 71: $5 \mathrm{cm}$ $5 \mathrm{cm}$

P = m (round to 1 decimal place)

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F.3 BUILDING EXPRESSIONS





 $\Box P = 4x$

- $\Box \ P = x$
- $\Box P = 3x$
- $\Box P = 2 \text{ cm}$





- $\Box P = 4x$
- $\Box P = x$
- $\Box P = 5x$
- $\Box P = 2 \text{ cm}$





- $\Box \ P = x$
- $\Box P = 5x$
- $\Box P = 3x$
- $\square P = 2 \text{ cm}$

MCQ 75: Write a formula for the perimeter of the figure:



 $\Box P = 3.14$

- $\Box P = 2\pi x$
- $\Box P = 2x + 2\pi x$
- $\square P = 2x + \pi x$