

Measurement and Data: math practice, Grade 4 – download the PDF

21 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Customary conversions



Fill in the blanks.

a. $3 \text{ ft} = ? \text{ in}$

b. $5 \text{ yd} = ? \text{ ft}$

c. $2 \text{ mi} = ? \text{ ft}$

2 Metric length conversions



Convert.

a. $4 \text{ m} = ? \text{ cm}$

b. $7 \text{ cm} = ? \text{ mm}$

c. $6 \text{ km} = ? \text{ m}$

3 Weight and capacity



Convert.

- a. $3 \text{ lb} = ? \text{ oz}$
- b. $5 \text{ kg} = ? \text{ g}$
- c. $4 \text{ gal} = ? \text{ qt}$
- d. $6 \text{ L} = ? \text{ mL}$

4 Choose the best unit



Choose the best unit for each measure.

- a. The length of a pencil: inches or miles?
- b. The mass of a bicycle: grams or kilograms?
- c. The water in a swimming pool: gallons or cups?
- d. The distance between two cities: meters or kilometers?

5 A movie at the theater



A movie starts at 4:10 pm and ends at 6:00 pm. How long does the movie last?

6 Perimeter and area of a card



A rectangular card is 12 cm long and 7 cm wide. Find its perimeter and its area.

7 Change at the store



Maya buys a notebook for \$2.75 and a pen for \$1.40. She pays with a \$5 bill. How much change does she get?

8**True or false?**

Say whether each statement is true or false, and correct the false ones.

- a. $2 \text{ L} = 200 \text{ mL}$
- b. $3 \text{ yd} = 9 \text{ ft}$
- c. $1 \text{ m} = 10 \text{ cm}$
- d. $24 \text{ oz} = 1 \text{ lb } 8 \text{ oz}$

9**Mixed units**

Write each measure in the smaller unit only.

- a. $2 \text{ ft } 5 \text{ in} = ? \text{ in}$
- b. $3 \text{ m } 40 \text{ cm} = ? \text{ cm}$
- c. $4 \text{ lb } 6 \text{ oz} = ? \text{ oz}$

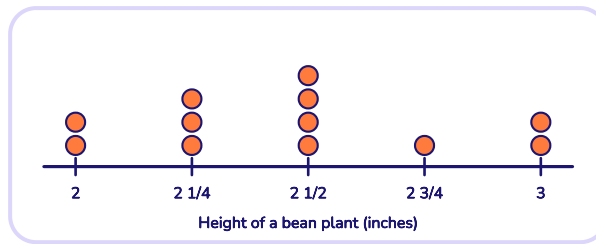
10**Swim practice**

- a. Swim practice starts at 5:35 pm and ends at 7:10 pm. How long is it?
- b. A piano lesson lasts 45 minutes and ends at 3:20 pm. When did it start?

11**The missing side**

A rectangular rug has an area of 72 square feet and a width of 8 feet. Find its length and its perimeter.

12 Reading a line plot



The line plot shows the heights of bean plants in inches.

- How many plants are there in all?
- How many plants are exactly $2\frac{1}{2}$ inches tall?
- How many plants are taller than $2\frac{1}{2}$ inches?
- What is the difference between the tallest and the shortest plant?

13 Cutting a rope



A 3 m rope is cut into pieces that are each 25 cm long. How many pieces are there?

14 At the movie snack bar



Four movie tickets cost \$6.50 each. A large popcorn costs \$3.75. The family pays with a \$30 bill. How much change do they get?

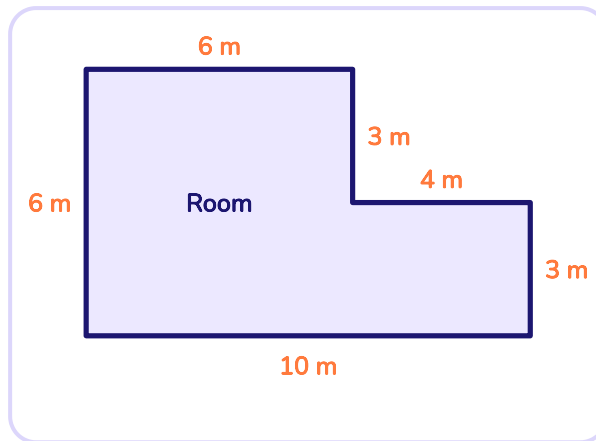
15 Fencing a garden



Sam's rectangular garden is 14 ft long and 9 ft wide. Fence panels are 3 ft long, cost \$12 each and can only be bought whole. How many panels does Sam need to go around the garden, and how much do they cost?

16 An L-shaped room

★★★



The L-shaped room in the figure is a 10 m by 6 m rectangle with a 4 m by 3 m corner removed.

- Find its area.
- Find its perimeter.
- Carpet costs \$9 per square meter. How much does it cost to carpet the whole room?

17 Same perimeter, different areas

★★★

Rectangles with whole-number sides all have a perimeter of 24 cm. List every one of them and find each area. Which rectangle has the greatest area?

18 Same area, different perimeters

★★★

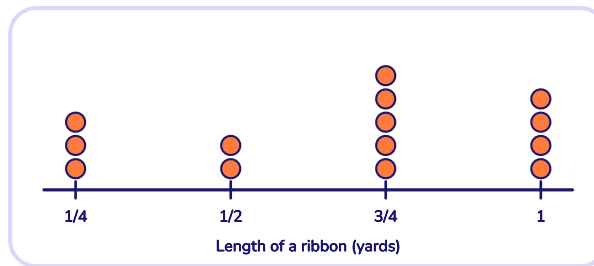
A rectangle has an area of 24 square units and whole-number sides. Find all the possible rectangles and their perimeters. Which one needs the least fencing?

19 Punch for a party

★★★

Jordan makes 3 gallons of fruit punch and serves it in 1-cup servings. (a) How many servings can Jordan pour? (b) 35 guests each take one serving. How much punch is left? Give it in quarts and cups.

20 Ribbon line plot



The line plot shows the lengths of 14 ribbons in yards. (a) How many ribbons are shorter than 1 yard? (b) What is the total length of all the ribbons?

21 Train trip



A train leaves at 9:48 am and arrives at 1:15 pm. (a) How long is the trip? (b) The ticket costs \$18.50 and a child pays half price. What do 2 adults and 1 child pay in all?



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