

ANSWER KEY

Worksheet answers

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Grades 4–5 · 29 questions. Each line gives the answer, then the one-line working. Every answer is a whole number or an exact decimal. No rounding needed.

A. Metric staircase

1 31,000 g

31 kg: 3 steps down, decimal 3 places right = 31,000 g

2 8 L

8,000 mL: 3 steps up, decimal 3 places left = 8 L

3 42,000 mL

42 L: 3 steps down, decimal 3 places right = 42,000 mL

4 85 m

85,000 mm: 3 steps up, decimal 3 places left = 85 m

5 38,000 m

38 km: 3 steps down, decimal 3 places right = 38,000 m

6 16 kg

16,000 g: 3 steps up, decimal 3 places left = 16 kg

7 910 mm

91 cm: 1 step down, decimal 1 place right = 910 mm

8 19 cm

190 mm: 1 step up, decimal 1 place left = 19 cm

B. Customary units

9 72 in

2 yd $\times$ 3 ft/1 yd $\times$ 12 in/1 ft = 72 in

10 15 ft

5 yd $\times$ 3 ft/1 yd = 15 ft

11 64 oz

4 lb $\times$ 16 oz/1 lb = 64 oz

12 16 fl oz

2 cup $\times$ 8 fl oz/1 cup = 16 fl oz

13 6 cups

3 pt $\times$ 2 cup/1 pt = 6 cup

14 15,840 ft

3 mi $\times$ 5280 ft/1 mi = 15,840 ft

15 24 pt

3 gal $\times$ 4 qt/1 gal $\times$ 2 pt/1 qt = 24 pt

16 6 tsp

2 tbsp $\times$ 3 tsp/1 tbsp = 6 tsp

C. Greater than, less than, or equal?

17 <

39 L = 39,000 mL, and 39,000 < 39,010, so 39 L < 39,010 mL

18 >

2.5 km = 2,500 m, and 2,500 > 2,450, so 2.5 km > 2,450 m

19 <

9 g = 9,000 mg, and 9,000 < 9,010, so 9 g < 9,010 mg

20 =

25 m = 2,500 cm, and 2,500 = 2,500, so 25 m = 2,500 cm

21 <

5.1 kg = 5,100 g, and 5,100 < 5,150, so 5.1 kg < 5,150 g

22 <

3.2 m = 3,200 mm, and 3,200 < 3,205, so 3.2 m < 3,205 mm

D. Count the steps

23 3 places, right

3 steps down the staircase, so the decimal moves 3 places right.

24 2 places, left

2 steps up the staircase, so the decimal moves 2 places left.

25 3 places, left

3 steps up the staircase, so the decimal moves 3 places left.

26 2 places, right

2 steps down the staircase, so the decimal moves 2 places right.

E. Word problems

27 8 glasses

1.6 L = 1,600 mL; $1,600 \div 200 = 8$

28 7,600 m

7 km = 7,000 m; $7,000 + 600 = 7,600$ m

29 280 cm

2 m = 200 cm; $200 + 80 = 280$ cm