Benchmark Test 4 *(Chapters 1–12)*

Read each question. Fill in the correct answer.

1. What are all of the ways in which the figure can be classified?

- Ⓐ quadrilateral, parallelogram
- Ⓑ quadrilateral, parallelogram, square, rectangle
- Ⓒ quadrilateral, parallelogram, square, rhombus, rectangle
- ● quadrilateral, parallelogram, rectangle

2. Lani represented the length of a beetle (centimeters) in expanded notation.

$$3 \times 1 + \left(4 \times \frac{1}{100}\right) + \left(5 \times \frac{1}{1,000}\right)$$

What is this number in standard form?

- Ⓕ 0.345
- Ⓖ 3.0405
- ● 3.045
- Ⓘ 3.45

3. A company assembles marble bags with 18 marbles to a bag. About how many bags does the company need for 730 marbles?

- Ⓐ 80 bags
- Ⓑ 50 bags
- ● 40 bags
- Ⓓ 30 bags

4. Erin hiked 5.6 miles in the morning and 4.25 miles in the afternoon. How many miles did she hike in all?

- Ⓕ 1.35 miles
- Ⓖ 1.45 miles
- Ⓗ 9.31 miles
- ● 9.85 miles

5. The most visitors to Yosemite National Park in one year is 4,190,557. What is the value of the digit 9 in this number?

- Ⓐ 900,000
- ● 90,000
- Ⓒ 900
- Ⓓ 90

6. A deli made $1,080 on 24 deluxe platters. How much money would the deli make on 35 deluxe platters?

- ● $1,575
- Ⓖ $1,555
- Ⓗ $1,475
- Ⓘ $1,455

GO ON ▶

Benchmark Test 4   *(continued)*

7. Omar pours $\frac{2}{3}$ cup of juice each morning for himself and his two brothers. How many quarts of juice does he use in 30 days?

Ⓐ $7\frac{1}{2}$ quarts

● 15 quarts

Ⓒ 20 quarts

Ⓓ 30 quarts

9. A recipe for apricot stuffing calls for $1\frac{1}{2}$ pounds of apricots. If Gracie increases the recipe $2\frac{1}{2}$ times, how many pounds of apricots will she need?
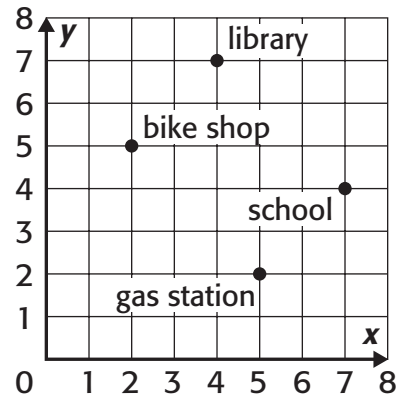
Ⓐ $7\frac{1}{2}$ pounds

Ⓑ 4 pounds

● $3\frac{3}{4}$ pounds

Ⓓ 2 pounds

8. A kite maker uses 125 feet of string for each kite he makes. How many feet of string does he need for 75 kites?
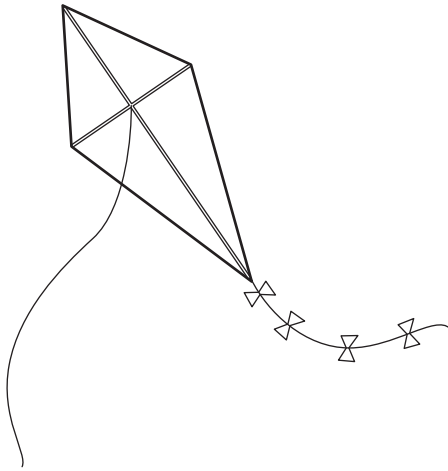
Ⓕ 8,055 ft

Ⓖ 8,275 ft

Ⓗ 9,075 ft

● 9,375 ft

10. Which place is located at (4, 7)?

Ⓕ bike shop

Ⓖ gas station

● library

Ⓘ school

GO ON ▶

Benchmark Test 4   *(continued)*

11. Chloe recorded the lengths of several walking stick insects.

Walking Stick	Length (cm)
A	10.24
B	11.1
C	10.2
D	11.05

Which list shows the lengths in order from *least* to *greatest*?

Ⓐ 10.24, 10.2, 11.1, 11.05

● 10.2, 10.24, 11.05, 11.1

Ⓒ 10.24, 10.2, 11.05, 11.1

Ⓓ 11.1, 11.05, 10.24, 10.2

12. Mrs. Hinshaw used $2\frac{3}{4}$ pounds of asparagus and $4\frac{1}{8}$ pounds of shrimp to make stir fry. How many more pounds of shrimp did she use than asparagus?

● $1\frac{3}{8}$ pounds

Ⓖ $1\frac{1}{2}$ pounds

Ⓗ $1\frac{3}{4}$ pounds

Ⓘ $2\frac{3}{8}$ pounds

13. The typical mass of a bullfrog is 0.5 kilogram. What is the mass of 3 bullfrogs in grams?

Ⓐ 1.5 grams

Ⓑ 15 grams

Ⓒ 150 grams

● 1,500 grams

14. Two packages weigh 3.92 pounds and 2.8 pounds. How many times heavier is the first package than the second?

Ⓕ 0.7 times

Ⓖ 1.12 times

● 1.4 times

Ⓘ 1.84 times

15. Davis wants to pour 5 gallons of punch into $\frac{1}{2}$ gallon jugs. How many jugs will he need?
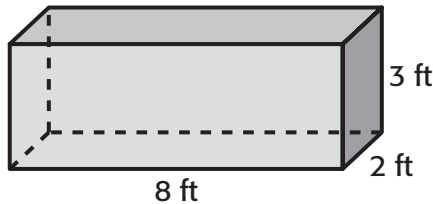
Ⓐ $2\frac{1}{2}$

Ⓑ $5\frac{1}{2}$

● 10

Ⓓ 15

GO ON ▶

Benchmark Test 4 *(continued)*

16. Angelo used contact paper to cover shelves in a pantry and cupboard. He used $\frac{2}{3}$ of a roll for the cupboard and $\frac{5}{6}$ of a roll for the pantry. How much more contact paper did he use for the pantry?

● $\frac{1}{6}$ roll

Ⓖ $\frac{1}{3}$ roll

Ⓗ $\frac{1}{2}$ roll

Ⓘ $\frac{2}{3}$ roll

17. Audrey bought a cedar chest to store her sweaters. What is the volume of the cedar chest?

3 ft
2 ft
8 ft

Ⓐ 18 ft³
Ⓑ 26 ft³
Ⓒ 38 ft³
● 48 ft³

18. A pet store sold 8 hamsters for $10 each and 8 mice for $3 each. Which numerical expression represents this situation?

Ⓕ 8 + 10 × 8 + 3
Ⓖ (8 × 10) × (8 × 3)
Ⓗ 8 × 8 (10 + 3)
● (8 × 10) + (8 × 3)

19. An airline had 9,453,607 passengers in September. It had fewer passengers in November. Which could be the number of passengers in November?

Ⓐ 9,481,886
Ⓑ 9,454,647
● 9,446,879
Ⓓ 9,504,903

20. Grady bought some fish for $17.43 and some fish food for $3.86. About how much more did Grady spend on the fish than on the fish food?

Ⓕ $12
● $13
Ⓗ $15
Ⓘ $21

GO ON ▶

Benchmark Test 4 *(continued)*

21. Michaela wrote her name in block letters. She colored $\frac{3}{4}$ of the letters pink. She drew green dots on $\frac{1}{2}$ of the pink letters. What fraction of the letters is pink with green dots?

Ⓐ $\frac{1}{4}$

● $\frac{3}{8}$

Ⓒ $\frac{6}{8}$

Ⓓ $\frac{5}{4}$

22. Ricardo spends $2\frac{2}{3}$ hours practicing soccer on Mondays and Wednesdays. He spends $1\frac{3}{4}$ hours practicing soccer on Tuesdays, Thursdays, and Fridays. How many hours in all does Ricardo spend practicing soccer?

Ⓕ $8\frac{11}{12}$ hours

Ⓖ $9\frac{3}{4}$ hours

● $10\frac{7}{12}$ hours

Ⓘ $11\frac{1}{2}$ hours

23. Mr. Sims wants to buy fencing for a square lot that is 30.5 feet on each side. How many feet of fencing does he need?

Ⓐ 61 feet

Ⓑ 120.5 feet

● 122 feet

Ⓓ 930.25 feet

24. A gym equally divided 330 towels so that each swimmer in a meet would get 4 towels. How many swimmers are at the meet?

Ⓕ 80 swimmers

● 82 swimmers

Ⓗ 83 swimmers

Ⓘ 84 swimmers

25. Two sides of a triangular sign are 24 inches long. The third side is 18 inches long. What is the perimeter of the sign in feet?

● $3\frac{1}{2}$ feet

Ⓑ 4 feet

Ⓒ $4\frac{1}{3}$ feet

Ⓓ $5\frac{1}{6}$ feet

GO ON ▶

Benchmark Test 4 *(continued)*

26. Cabins at a resort can sleep up to 48 guests. How many guests can 14 cabins sleep?

Ⓕ 542 guests
Ⓖ 572 guests
● 672 guests
Ⓘ 682 guests

28. The length of a robin's egg is 23.05 millimeters (mm). The length of a wren's egg is 20.85 millimeters. How much longer is the robin's egg?

● 2.2 mm
Ⓖ 2.75 mm
Ⓗ 3.2 mm
Ⓘ 3.8 mm

27. Mei sells headbands for $3 each and scarves for $6 each. The graph shows the dollar sales for each number of item.

Headband and Scarf Sales
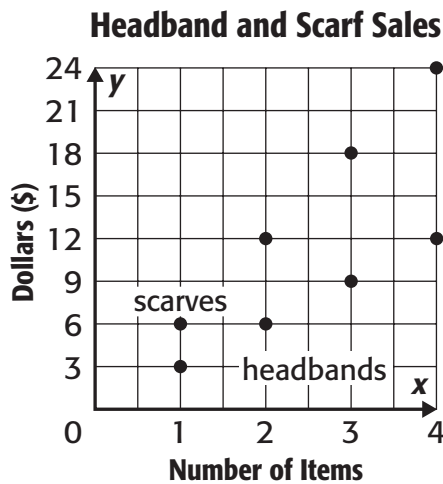
How much more does Mei make selling scarves than headbands?

● twice as much
Ⓑ three times as much
Ⓒ from 2 to 3 times as much
Ⓓ $12 more for each scarf

29. What is the volume of the storage building?
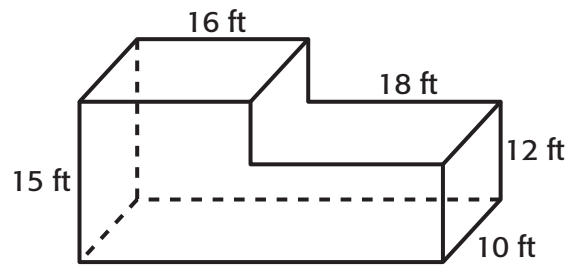
Ⓐ 2,400 ft³
Ⓑ 4,160 ft³
Ⓒ 4,460 ft³
● 4,560 ft³

30. A medium apple weighs about $\frac{1}{4}$ pound. How many ounces does a bag of 8 medium apples weigh?

Ⓕ 64 ounces
● 32 ounces
Ⓗ 16 ounces
Ⓘ 2 ounces

GO ON ▶

Benchmark Test 4 *(continued)*

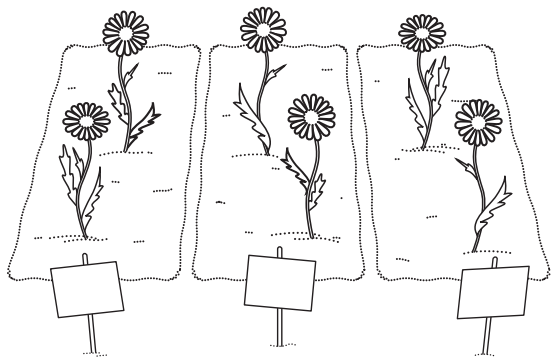**31.** Casey feeds her pot-bellied pig $1\frac{1}{3}$ cups of feed each day. How many cups of feed does her pig eat in 14 days?

Ⓐ $4\frac{2}{3}$ cups

Ⓑ $14\frac{2}{3}$ cups

● $18\frac{2}{3}$ cups

Ⓓ $23\frac{1}{3}$ cups

32. Adam divided his garden into 3 equal sections. The total area of the garden is 49.2 square feet. What is the area of each section?

Ⓕ 8.2 square feet

Ⓖ 13.9 square feet

Ⓗ 14.8 square feet

● 16.4 square feet

33. A hatchling Burmese python is 0.6 meter long. It can grow to be as long as 7 meters. If the hatchling grows to 7 meters, how many centimeters does it grow?

Ⓐ 700 centimeters

● 640 centimeters

Ⓒ 70 centimeters

Ⓓ 64 centimeters

34. What is the value of the expression?

$10 + 5 \times \{12 \div [(9 - 7) \times 3]\}$

● 20

Ⓖ 30

Ⓗ 100

Ⓘ 270

35. Six pancakes have 72 grams (g) of carbohydrates. How many grams of carbohydrates are in one pancake, on average?

● 12 g

Ⓑ 66 g

Ⓒ 78 g

Ⓓ 432 g

GO ON ▶

Benchmark Test 4 *(continued)*

36. In a class vote on favorite vegetables, $\frac{5}{12}$ of the students voted for corn and $\frac{5}{12}$ voted for carrots. What fraction of the class did **not** vote for corn or carrots?

● $\frac{1}{6}$

Ⓖ $\frac{1}{2}$

Ⓗ $\frac{2}{3}$

Ⓘ $\frac{5}{6}$

37. Bobbie is getting ready for a marathon. She ran a total of 600 miles in the past 50 days. How many miles did she run each day on average?

Ⓐ 10 miles

● 12 miles

Ⓒ 14 miles

Ⓓ 120 miles

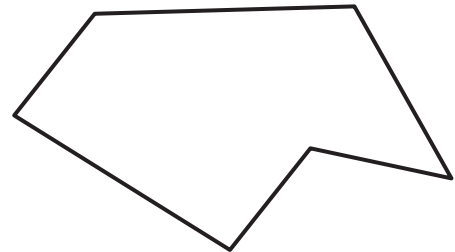**38.** A grey whale's mass is about 85 kilograms. What is its mass in grams?

Ⓕ 8,500 g

● 85,000 g

Ⓗ 850 g

Ⓘ 58,000 g

39. In Kip's class, $\frac{3}{20}$ of the students are wearing sandals. What is this fraction written as a decimal?

Ⓐ 0.32

Ⓑ 0.3

● 0.15

Ⓓ 0.105

40. What is the name of the polygon?

Ⓕ quadrilateral

Ⓖ pentagon

Ⓗ octagon

● hexagon

GO ON ▶

41. Jordan saved the same amount of money each week for 7 weeks to pay for summer camp. He saved $441 in all. The camp costs $245 with another $5 per day for activity fees. How much did Jordan save each week?

Ⓐ $28
Ⓑ $49
● $63
Ⓓ $98

42. Ethan bought 2 action figures for $25 each at a science fiction fair. He won an auction for a plastic sword, and he got a deal on 5 comic books for $9 each. He spent $102 altogether. How much did Ethan pay for the plastic sword?

● $7
Ⓖ $16
Ⓗ $27
Ⓘ $32

43. Jacqui has $3\frac{1}{2}$ yards of fabric to make a costume. She used $\frac{1}{4}$ of the fabric to make a hat. How much of the fabric did she use?

Ⓐ $\frac{3}{4}$ yard
● $\frac{7}{8}$ yard
Ⓒ 1 yard
Ⓓ $1\frac{1}{8}$ yards

44. A walk-a-thon raised $998.50. If 10 charities split the money equally, how much will each charity receive?

Ⓕ $9.99
Ⓖ $98.50
● $99.85
Ⓘ $9,985

45. Carlos paddled a canoe at an average rate of 6.32 miles per hour. How far did he travel in 2.5 hours?

● 15.8 miles
Ⓑ 15.7 miles
Ⓒ 15.69 miles
Ⓓ 158 miles

GO ON ▶

Benchmark Test 4 (continued)

46. Gabriela used $\frac{1}{8}$ pound jalapeno peppers, $\frac{2}{3}$ pound chili peppers, and $\frac{7}{16}$ pound Anaheim peppers to make enchilada seasoning. About how many pounds of peppers did Gabriela use?

● $0 + \frac{1}{2} + \frac{1}{2} = 1$ pound

Ⓖ $\frac{1}{2} + 1 + \frac{1}{2} = 2$ pounds

Ⓗ $\frac{1}{2} + 1 + 1 = 2\frac{1}{2}$ pounds

Ⓘ $1 + 1 + 1 = 3$ pounds

47. The line plot shows the length of some pencils in Ashton's class.

Pencil Length (inches)

How many times longer is the longest pencil than the shortest pencil?

Ⓐ $1\frac{1}{12}$ times as long

● $1\frac{1}{8}$ times as long

Ⓒ $1\frac{1}{6}$ times as long

Ⓓ $1\frac{1}{4}$ times as long

48. An art store has 10^3 posters. If the store sells each poster for $8, how much money will the store make on the posters?

Ⓕ $80

Ⓖ $240

Ⓗ $800

● $8,000

49. Which **best** describes the triangle?

Ⓐ obtuse scalene

Ⓑ acute isosceles

Ⓒ right scalene

● right isosceles

50. Jani has a 750-milliliter water bottle she takes when hiking. If she fills it 3 times and drinks all of the water, how many liters of water does she drink?

Ⓕ 2.15 liters

● 2.25 liters

Ⓗ 22.5 liters

Ⓘ 225 liters

STOP