Benchmark Test 1   *(Chapters 1–3)*

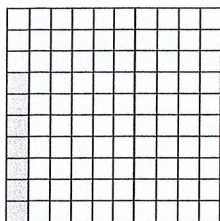**Read each question. Fill-in the correct answer.**

1. A right whale ate 7,875 pounds (lb) of copepods in 3 days. On average, how many pounds of copepods does a right whale eat in a day?
   - Ⓐ 2,225 lb
   - Ⓑ 2,619 lb
   - Ⓒ 2,625 lb
   - Ⓓ 2,665 lb

2. The model represents the approximate weight of a Bee Hummingbird, in ounces.

   What is the weight of a Bee Hummingbird?
   - Ⓕ 0.007 oz
   - Ⓖ 0.07 oz
   - Ⓗ 0.7 oz
   - Ⓘ 9.0 oz

3. There are 72 people in line for a roller coaster. What is the prime factorization of 72?
   - Ⓐ $2^3 \times 3^2$
   - Ⓑ $2^2 \times 3^3$
   - Ⓒ $2^3 \times 3$
   - Ⓓ 8×9

4. A store made $3,765,294 from sales of action figures. What is the place value of the digit 7 in this number?
   - Ⓕ thousands
   - Ⓖ ten thousands
   - Ⓗ hundred thousands
   - Ⓘ millions

5. A boat schedules an average of 144 passengers on each harbor cruise. There are 8 cruises each day. How many passengers schedule a cruise?
   - Ⓐ 1,052 passengers
   - Ⓑ 1,122 passengers
   - Ⓒ 1,142 passengers
   - Ⓓ 1,152 passengers

GO ON ▶

Name _____ Date _____

Benchmark Test 1 *(continued)*

6. A carousel averages 23 riders per ride and 111 rides each day. About how many riders does the carousel have each day?

   Ⓕ about 1,000 riders
   Ⓖ about 2,000 riders
   Ⓗ about 3,000 riders
   Ⓘ about 4,000 riders

7. The table shows the land area of some countries.

Country	Land Area (sq km)
Bolivia	1,098,580
Columbia	1,138,910
Ethiopia	1,127,127

   Which list shows the countries in order from least to greatest land area?

   Ⓐ Bolivia, Columbia, Ethiopia
   Ⓑ Columbia, Ethiopia, Bolivia
   Ⓒ Ethiopia, Bolivia, Columbia
   Ⓓ Bolivia, Ethiopia, Columbia

8. A theater has 654 seats in 6 sections. Each section has the same number of seats. How many seats are in each section?

   Ⓕ 19 seats
   Ⓖ 104 seats
   Ⓗ 109 seats
   Ⓘ 190 seats

9. Jake completed a cube puzzle in 8.352 minutes. What is this number written in expanded notation?

   Ⓐ $8 \times 1 + \left(3 \times \frac{1}{10}\right) + \left(5 \times \frac{1}{100}\right) + \left(2 \times \frac{1}{1,000}\right)$

   Ⓑ $8 \times 1 + \left(3 \times \frac{1}{10}\right) + \left(5 \times \frac{1}{1,000}\right) + \left(2 \times \frac{1}{10,000}\right)$

   Ⓒ $8 \times 1 + \left(3 \times \frac{1}{1,000}\right) + \left(5 \times \frac{1}{100}\right) + \left(2 \times \frac{1}{10}\right)$

   Ⓓ $8 \times 1 + \left(3 \times \frac{1}{10}\right) + \left(5 \times \frac{1}{10}\right) + \left(2 \times \frac{1}{10}\right)$

10. A manatee eats 180 pounds of lettuce every day. How many pounds of lettuce does it eat after 25 days?

    Ⓕ 450 lb
    Ⓖ 2,500 lb
    Ⓗ 3,500 lb
    Ⓘ 4,500 lb

Benchmark Test 1 *(continued)*

11. A baseball player had a batting average of 0.327 for the season. What is the place value of the digit 2 in this number?

Ⓐ ones
Ⓑ tenths
Ⓒ **hundredths**
Ⓓ thousandths

14. Harper's Lake posted four of the heaviest fish (kg) caught in July. Which of the choices below is the heaviest?

Ⓕ **2.2 kg**
Ⓖ 2.02 kg
Ⓗ 2.14 kg
Ⓘ 2.125 kg

12. A farmer has 696 acres of pasture for sheep grazing, and 40 acres for growing cotton. An average of 8 sheep graze on one acre. How many sheep does the farmer have?

Ⓕ 87 sheep
Ⓖ **5,568 sheep**
Ⓗ 5,587 sheep
Ⓘ 6,568 sheep

15. The largest recorded rubber band ball has a mass of about 4^6 kilograms. What is the mass of the ball?

Ⓐ 1,024 kg
Ⓑ 1,296 kg
Ⓒ **4,096 kg**
Ⓓ 7,776 kg

13. A coach equally divided 131 water bottles among 4 teams. How many water bottles did each team get?

Ⓐ 31 water bottles
Ⓑ **32 water bottles**
Ⓒ 33 water bottles
Ⓓ 35 water bottles

Benchmark Test 1   *(continued)*

16. A campground allows a maximum of 6 campers in a camp site. How many camp sites does a group of 237 campers need?

Ⓟ 38 camp sites

Ⓡ 39 camp sites

Ⓢ 40 camp sites

Ⓣ 41 camp sites

17. The table shows the lengths of some trails.

Trail	Length (miles)
Falls Gap	6.025
Lost Lake	7.9
Pine Rim	6.14
Red Oak	7.82

Which list shows the trails in order from greatest length to least length?

Ⓐ Lost Lake, Red Oak, Pine Rim, Falls Gap

Ⓑ Red Oak, Lost Lake, Falls Gap, Pine Rim

Ⓒ Falls Gap, Pine Rim, Red Oak, Lost Lake

Ⓓ Lost Lake, Red Oak, Falls Gap, Pine Rim

18. A party at a video arcade costs $26 per person. If 24 people attend the party, what is the total cost?

Ⓟ $504

Ⓡ $524

Ⓢ $604

Ⓣ $624

19. Bradford had *four and fifty-nine hundredths* inches of rainfall in April. What is this number in standard form?

Ⓐ 0.459

Ⓑ 4.059

Ⓒ 4.509

Ⓓ 4.59

20. A balloon stand at a fair sold 418 balloons in 6 days. About how many balloons were sold each day on average?

Ⓟ about 80 balloons

Ⓡ about 70 balloons

Ⓢ about 60 balloons

Ⓣ about 40 balloons

STOP

Name _____ Date _____

Benchmark Test 2 *(Chapters 4–6)*

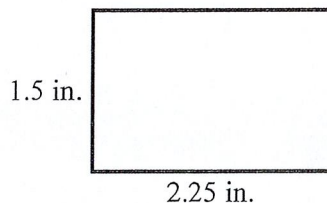**Read each question. Fill in the correct answer.**

1. Adaya equally divided 156 sheets of construction paper into a 13-pocket accordion file. How many sheets of paper are in each pocket?

   (A) 11 sheets
   (B) 12 sheets
   (C) 13 sheets
   (D) 15 sheets

2. Isabel drew the rectangle.

   1.5 in. [rectangle] 2.25 in.

   What is the perimeter of the rectangle?

   (F) 3.375 inches
   (G) 3.75 inches
   (H) 6.6 inches
   (I) 7.5 inches

3. Chad jumped 2.07 meters. Everett jumped 1.8 meters. How many times farther did Chad jump than Everett?

   (A) 11.5 times
   (B) 3.15 times
   (C) 1.15 times
   (D) 0.27 times

4. A box contains 10 social studies textbooks. Each textbook weighs 3.6 pounds. What is the weight of 30 boxes of textbooks?
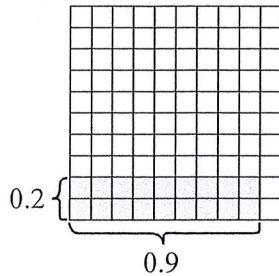
   (F) 980 pounds
   (G) 1,080 pounds
   (H) 1,110 pounds
   (I) 1,110 pounds

5. Mrs. Ruiz paid $52.20 for 9 identical beach balls. About how much did one beach ball cost?

   (A) $6
   (B) $7
   (C) $8
   (D) $9

GO ON ▶

Benchmark Test 2   *(continued)*

6. Justin's friend Edward told him that he lives close by, only two tenths of 0.9 kilometer. Justin used the model to find the distance.

0.2 {grid model} 0.9

How far does Justin live from Edward?

Ⓓ 18 kilometers

Ⓘ 1.8 kilometers

Ⓘ 0.18 kilometer

Ⓛ 0.018 kilometer

7. At a swim competition, Sara finished the 50-yard freestyle in 27.47 seconds. Hannah finished in 28.68 seconds. How much faster was Sara?

Ⓐ 1.21 seconds

Ⓑ 1.29 seconds

Ⓒ 1.79 seconds

Ⓓ 1.89 seconds

8. A migrating whale swims 990 miles in 30 days. How far does the whale swim in 35 days at the same rate?

Ⓕ 995 miles

Ⓖ 1,045 miles

Ⓗ 1,050 miles

Ⓘ 1,155 miles

9. Mr. Hall bought 2 binders for $21.28 each and a box of pens for $7.99. About how much did Mr. Hall spend?

Ⓐ $30

Ⓑ $50

Ⓒ $60

Ⓓ $70

10. It takes about 29.46 Earth years for Saturn to orbit the Sun. How many Earth years does it take Saturn to orbit the Sun 10 times?

Ⓕ 2.946 Earth years

Ⓖ 294.6 Earth years

Ⓗ 2,946 Earth years

Ⓘ 29,460 Earth years

GO ON ▶

Benchmark Test 2 *(continued)*

11. A store is having a contest. The person who draws a pink tag from a box of tags will get a store coupon for $10. The store coupon will increase in value each day the pink tag is not drawn.

Day	Coupon
1	$10
2	$15
3	$22.50
4	$33.75

To the nearest cent, how much will the coupon be worth on the fifth day?

Ⓐ $75.94
Ⓑ $45.00
Ⓒ $38.75
Ⓓ $50.63

12. The wingspan of a Cowbird is 1.6 times as long as its length. If the length of a Cowbird is 7.5 inches, what is its wingspan?

Ⓕ 5.9 inches
Ⓖ 7.7 inches
Ⓗ 11.7 inches
Ⓘ 12 inches

13. A beach shop made $7,650 in 25 days of renting beach umbrellas. How much did the beach shop make each day?

Ⓐ $360
Ⓑ $320
Ⓒ $306
Ⓓ $36

14. Reed bought 3.86 pounds of dried peaches and 1.1 pounds of dried cherries. About how many more pounds of dried peaches did Reed buy?

Ⓕ 1 pound
Ⓖ 2 pounds
Ⓗ 3 pounds
Ⓘ 5 pounds

15. Jarred biked 39.9 miles in 3.5 hours. How far did he bike in one hour, on average?

Ⓐ 1.14 miles
Ⓑ 11.4 miles
Ⓒ 11.8 miles
Ⓓ 36.4 miles

GO ON ▶

Name _____ Date _____

Benchmark Test 2   *(continued)*

16. To get a special shipping rate, Tamika has to limit the weight of her package to 5 pounds. She is shipping a book that weighs 1.6 pounds, a portable hard drive that weighs 0.15 pound, and a camera that weighs 3.2 pounds. Which should Tamika use to determine if her package meets the limit?

  Ⓕ Estimate: 2 + 1 + 3 = 6

  Ⓖ Estimate: 1 + 1 + 3 = 5

  Ⓗ Exact: 1.6 + 0.15 + 3.2 = 6.3

  Ⓘ Exact: 1.6 + 0.15 + 3.2 = 4.95

17. A goat sleeps an average of 5.3 hours per day. How many hours does a goat sleep in 28 days?

  Ⓐ 108.4 hours

  Ⓑ 146.4 hours

  Ⓒ 148.4 hours

  Ⓓ 153 hours

18. A board is 18.375 feet long. What is the length of the board to the nearest tenth?

  Ⓕ 18.3 feet

  Ⓖ 18.4 feet

  Ⓗ 18.37 feet

  Ⓘ 18.38 feet

19. A caterer ordered 27 boxes of gourmet cupcakes for a total of 864 cupcakes. About how many cupcakes are in a box?

  Ⓐ 40 cupcakes

  Ⓑ 30 cupcakes

  Ⓒ 20 cupcakes

  Ⓓ 10 cupcakes

20. A store sells 25 bars of handmade soap for $89.75. What does one bar of soap cost?

  Ⓕ $3.59

  Ⓖ $3.60

  Ⓗ $3.99

  Ⓘ $4.39

STOP

Name _____ Date _____

Benchmark Test 3   *(Chapters 7-9)*

Read each question. Fill in the correct answer.

1. At a desert habitat, $\frac{2}{5}$ of the lizards are Gila monsters. What is this number written as a decimal?
   - (A) 0.2
   - (B) 0.25
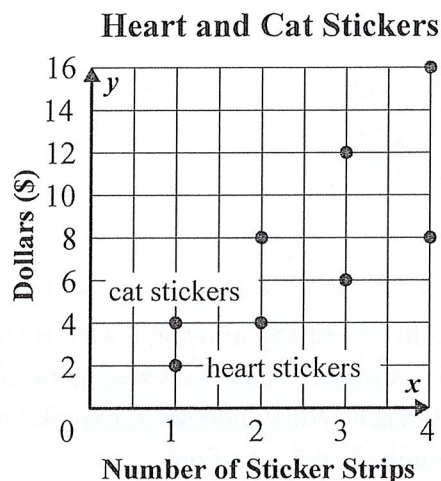   - **(C) 0.4**
   - (D) 0.6

2. What is the value of the expression?
   $$\{2^3 + [4 \times (10 - 6)]\} \div 3$$
   - **(F) 8**
   - (G) 12
   - (H) 14
   - (I) 16

3. The apples at a fruit stand are $\frac{3}{10}$ Gala and $\frac{1}{2}$ Fuji. What fraction of the apples is Gala or Fuji?
   - (A) $\frac{1}{3}$
   - (B) $\frac{1}{5}$
   - (C) $\frac{3}{5}$
   - **(D) $\frac{4}{5}$**

4. Ami pays $2 for a strip of heart stickers and $4 for a strip of cat stickers. The graph shows the cost of each type and number of sticker strips.

   Heart and Cat Stickers

   Number of Sticker Strips

   How much more is the cost of 3 cat strips than 3 heart strips?
   - (F) $2
   - (G) $4
   - **(H) $6**
   - (I) $8

5. Justine is wrapping two gifts. She used $2\frac{2}{3}$ feet of ribbon for the first gift. She used $3\frac{3}{4}$ feet of ribbon for the second gift. How much ribbon did Justine use in all?
   - (A) $5\frac{5}{7}$ feet
   - (B) $5\frac{5}{12}$ feet
   - (C) $5\frac{7}{12}$ feet
   - **(D) $6\frac{5}{12}$ feet**

GO ON ▶

Benchmark Test 3   *(continued)*

6. Nadia mixed $\frac{3}{4}$ cup mozzarella and $\frac{2}{4}$ cup parmesan to make a cheese sauce. How much more mozzarella cheese than parmesan did Nadia use?

   Ⓕ $\frac{1}{4}$ cup

   Ⓖ $\frac{1}{2}$ cup
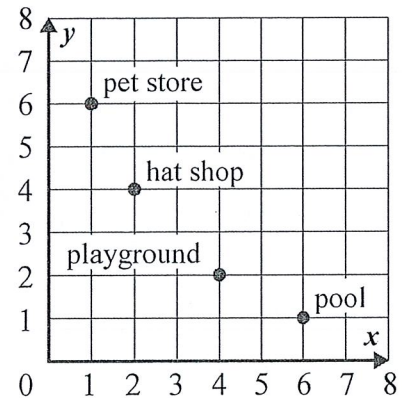
   Ⓗ $\frac{3}{4}$ cup

   Ⓘ $\frac{5}{4}$ cups

7. Colin earned $50 mowing lawns. He used his earnings to buy two video games for $18 each. Which numerical expression represents this situation?

   Ⓐ $50 - 2 \times 18$

   Ⓑ $50 + 2 \times 18$

   Ⓒ $(50 - 18) \times 2$

   Ⓓ $50 - (2 + 18)$

8. In Caleb's class, 20 out of 32 students voted for the Statue of Liberty as the favorite monument. What fraction of students, in simplest form, voted for the Statue of Liberty?

   Ⓕ $\frac{10}{16}$

   Ⓖ $\frac{4}{8}$

   Ⓗ $\frac{8}{5}$

   Ⓘ $\frac{5}{8}$

9. A car wash sold 12 basic car washes for $9 each. It sold deluxe car washes for $14 each. If the car wash made $318 in all, how many car washes did it sell?

   Ⓐ 15 car washes

   Ⓑ 24 car washes

   Ⓒ 27 car washes

   Ⓓ 29 car washes

10. Which is the ordered pair for the hat shop?

   Ⓕ (6, 1)

   Ⓖ (4, 2)

   Ⓗ (2, 4)

   Ⓘ (1, 6)

GO ON▶

Benchmark Test 3   *(continued)*

Amanda finds the perimeter, she wants

11. A bag of bagels contains $\frac{10}{16}$ blueberry bagels. There are fewer garlic bagels. Which could be the fraction of garlic bagels?

Ⓐ $\frac{5}{6}$ garlic

Ⓑ $\frac{3}{8}$ garlic

Ⓒ $\frac{3}{5}$ garlic

Ⓓ $\frac{11}{20}$ garlic

14. A rectangular park has a length of $\frac{5}{6}$ mile and a width of $\frac{3}{6}$ mile. Before Amanda finds the perimeter, she wants to determine a reasonable answer. Which calculation should she use?

Ⓕ $\frac{1}{2} + \frac{1}{2} = 1$ mile

Ⓖ $1 + 1 = 2$ miles

Ⓗ $1 + \frac{1}{2} + 1 + \frac{1}{2} = 3$ miles

Ⓘ $1 + 1 + 1 + 1 = 4$ miles

12. Three parcels weigh 2 pounds. Two parcels weigh the same. The lightest weight is $\frac{5}{8}$ pound lighter than the heaviest weight. How much do each of the parcels weigh?

Ⓕ $\frac{1}{8}$ lb, $\frac{1}{8}$ lb, $\frac{3}{4}$ lb

Ⓖ $\frac{1}{4}$ lb, $\frac{1}{4}$ lb, $\frac{3}{2}$ lb

Ⓗ $\frac{5}{8}$ lb, $\frac{5}{8}$ lb, $\frac{3}{4}$ lb

Ⓘ $\frac{7}{8}$ lb, $\frac{7}{8}$ lb, $\frac{1}{4}$ lb

15. The colors in a balloon bouquet are $\frac{3}{10}$ green, $\frac{2}{10}$ yellow, and $\frac{5}{10}$ red. What fraction the balloon bouquet is red or yellow?

Ⓐ $\frac{4}{5}$

Ⓑ $\frac{7}{10}$

Ⓒ $\frac{1}{2}$

Ⓓ $\frac{3}{10}$

13. Gia and Joel are unpacking boxes of glassware. Gia unpacked $4\frac{5}{8}$ boxes. Joel unpacked $2\frac{1}{5}$ boxes. About how many more boxes has Gia unpacked than Joel?

Ⓐ 1 box

Ⓑ 2 boxes

Ⓒ $2\frac{1}{2}$ boxes

Ⓓ 3 boxes

Benchmark Test 3 *(continued)*

16. Danielle bought $6\frac{7}{8}$ yards of chiffon to make a party dress. She bought $4\frac{5}{6}$ yards of satin for the lining. How much more chiffon did she buy than satin?

- Ⓕ $1\frac{1}{24}$ yards
- Ⓖ $2\frac{1}{24}$ yards
- Ⓗ $2\frac{1}{12}$ yards
- Ⓘ $2\frac{1}{3}$ yards

17. Kyle is writing a report on wind energy. He worked on the report $2\frac{3}{4}$ hours on Monday, $3\frac{1}{3}$ hours on Tuesday, and $3\frac{2}{5}$ hours on Wednesday. About how many hours did Kyle work on his report?

- Ⓐ 7 hours
- Ⓑ $7\frac{1}{2}$ hours
- Ⓒ 8 hours
- Ⓓ $9\frac{1}{2}$ hours

18. What are the next three terms in the sequence?

3, 6, 12, 24, 48, …

- Ⓕ 51, 54, 57
- Ⓖ 54, 60, 66
- Ⓗ 72, 96, 120
- Ⓘ 96, 192, 384

19. A rectangular plaque at a historical museum is $\frac{5}{6}$ yard long and $\frac{2}{3}$ yard wide. How much longer is the plaque than wide?

- Ⓐ $\frac{1}{6}$ yard
- Ⓑ $\frac{1}{3}$ yard
- Ⓒ $\frac{1}{2}$ yard
- Ⓓ 1 yard

20. On a bike tour, Jay biked $23\frac{1}{6}$ miles the first day and $19\frac{3}{10}$ miles the second day. How much farther did Jay bike on the first day?

- Ⓕ $3\frac{8}{15}$ miles
- Ⓖ $3\frac{13}{15}$ miles
- Ⓗ $4\frac{6}{15}$ miles
- Ⓘ $4\frac{13}{15}$ miles

STOP

Name _____ Date _____

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?
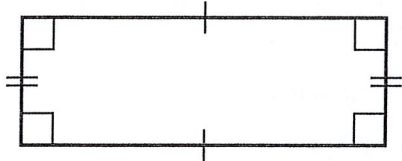
- (A) quadrilateral, parallelogram
- (B) quadrilateral, parallelogram, square, rectangle
- (C) quadrilateral, parallelogram, square, rhombus, rectangle
- (D) quadrilateral, parallelogram, rectangle

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?

- (F) 0.345
- (G) 3.0405
- (H) 3.045
- (I) 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?

- (A) 80 bags
- (B) 50 bags
- (C) 40 bags
- (D) 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?

- (F) 1.35 miles
- (G) 1.45 miles
- (H) 9.31 miles
- (I) 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?

- (A) 900,000
- (B) 90,000
- (C) 900
- (D) 90

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

- (F) $1,575
- (G) $1,555
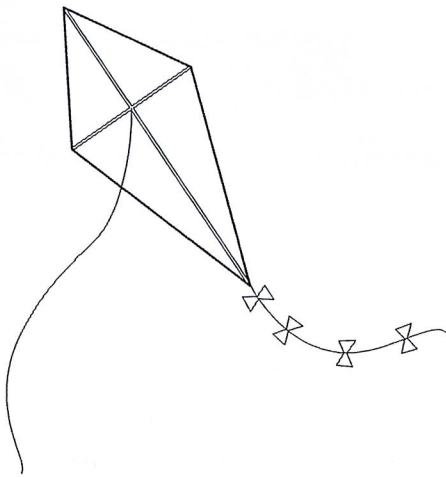- (H) $1,475
- (I) $1,455

GO ON ▶

Name _____Date _____

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

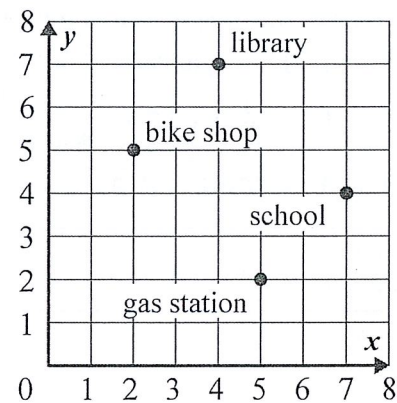8. A kite maker uses 125 feet of string for each kite he makes. How many feet of string does he need for 75 kites?

   Ⓕ 8,055 ft

   Ⓖ 8,275 ft

   Ⓗ 9,075 ft

   Ⓘ 9,375 ft

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

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?
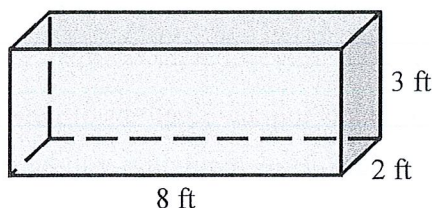
   (F) $\frac{1}{6}$ roll

   (G) $\frac{1}{3}$ roll

   (H) $\frac{1}{2}$ roll

   (I) $\frac{2}{3}$ 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

   (A) 18 ft³
   (B) 26 ft³
   (C) 38 ft³
   (D) 48 ft³

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

   (F) $8 + 10 \times 8 + 3$
   (G) $(8 \times 10) \times (8 \times 3)$
   (H) $8 \times 8 (10 + 3)$
   (I) $(8 \times 10) + (8 \times 3)$

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?

   (A) 9,481,886
   (B) 9,454,647
   (C) 9,446,879
   (D) 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?

   (F) $12
   (G) $13
   (H) $15
   (I) $21

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 of 18 inches long. What is the perimeter 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?

(F) 542 guests

(G) 572 guests

(H) 672 guests

(I) 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?
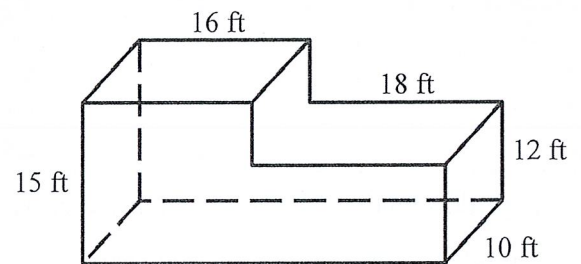
(F) 2.2 mm

(G) 2.75 mm

(H) 3.2 mm

(I) 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
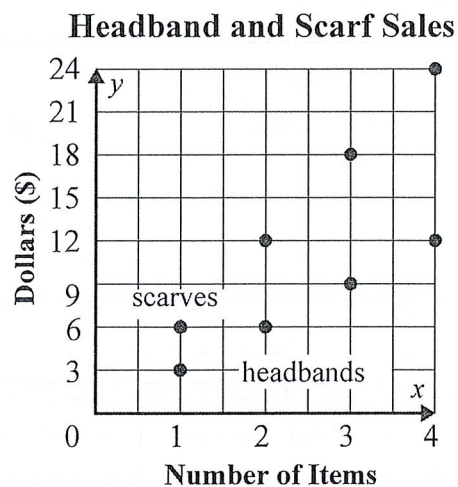
How much more does Mei make selling scarves than headbands?

(A) twice as much

(B) three times as much

(C) from 2 to 3 times as much

(D) $12 more for each scarf

29. What is the volume of the storage building?

(A) 2,400 ft³

(B) 4,160 ft³

(C) 4,460 ft³

(D) 4,560 ft³

_1 pound. How many ounces does a bag of 8 medium apples weigh?

30. A medium apple weighs about $\frac{1}{4}$ pound. How many ounces does a bag of 8 medium apples weigh?
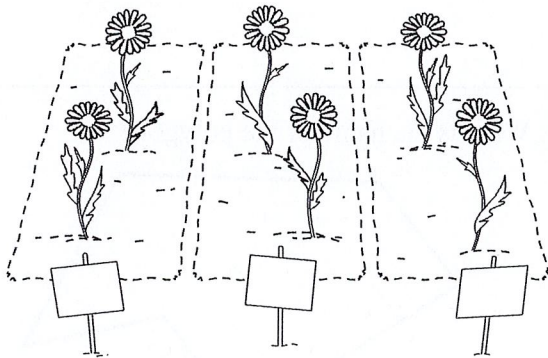
(F) 64 ounces

(G) 32 ounces

(H) 16 ounces

(I) 2 ounces

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

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?
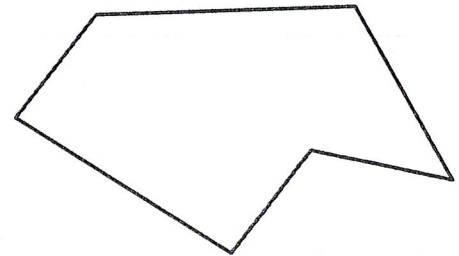
Ⓐ 0.32

Ⓑ 0.3

Ⓒ 0.15

Ⓓ 0.105

40. What is the name of the polygon?

Ⓕ quadrilateral

Ⓖ pentagon

Ⓗ octagon

Ⓘ hexagon

GO ON ▶

Benchmark Test 4 *(continued)*

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 $\frac{1}{4}$ 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

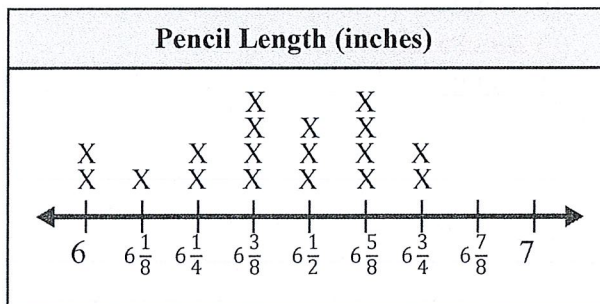45. Carlos paddled a canoe at an average rate of 6.32 miles per hour. How far did he travel in 2.5 hours?

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

GO ON ▶

Name _____ Date _____

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?

(F) $0 + \frac{1}{2} + \frac{1}{2} = 1$ pound

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

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

(I) $1 + 1 + 1 = 3$ pounds

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

Pencil Length (inches)

```
                X       X
                X   X   X
        X       X   X   X
X       X   X   X   X   X   X
X   X   X   X   X   X   X
|---|---|---|---|---|---|---|---|
6  6⅛ 6¼ 6⅜ 6½ 6⅝ 6¾ 6⅞  7
```
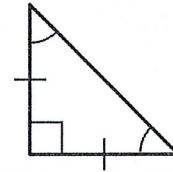
How many times longer is the longest pencil than the shortest pencil?

(A) $1\frac{1}{12}$ times as long

(B) $1\frac{1}{8}$ times as long

(C) $1\frac{1}{6}$ times as long

(D) $1\frac{1}{4}$ 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?

(F) $80

(G) $240

(H) $800

(I) $8,000

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

(A) obtuse scalene

(B) acute isosceles

(C) right scalene

(D) 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?

(F) 2.15 liters

(G) 2.25 liters

(H) 22.5 liters

(I) 225 liters

STOP