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?
   \[ 2^3 + [4 \times (10 - 6)] \div 3 \]
   - ● 8
   - ○ 12
   - ◼ 14
   - ▲ 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) \( \frac{3}{5} \)
   - ● \( \frac{4}{5} \)

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.

   How much more is the cost of 3 cat strips than 3 heart strips?
   - F) $2
   - G) $4
   - ● $6
   - ▲ $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
   - ● 6 \( \frac{5}{12} \) feet

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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

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?

- A 15 car washes
- B 24 car washes
- C 27 car washes
- D 29 car washes

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

- A \( 50 - 2 \times 18 \)
- B \( 50 + 2 \times 18 \)
- C \( (50 - 18) \times 2 \)
- D \( 50 - (2 + 18) \)

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

- F (6, 1)
- G (4, 2)
- H (2, 4)
- I (1, 6)
11. A bag of bagels contains \( \frac{5}{12} \) blueberry bagels. There are fewer garlic bagels. Which could be the fraction of garlic bagels?
   - A \( \frac{5}{6} \) garlic
   - B \( \frac{3}{8} \) garlic
   - C \( \frac{3}{5} \) garlic
   - D \( \frac{11}{20} \) garlic

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?
   - F \( \frac{1}{8} \) lb, \( \frac{1}{8} \) lb, \( \frac{3}{4} \) lb
   - G \( \frac{1}{4} \) lb, \( \frac{1}{4} \) lb, \( \frac{3}{2} \) lb
   - H \( \frac{5}{8} \) lb, \( \frac{5}{8} \) lb, \( \frac{3}{4} \) lb
   - I \( \frac{7}{8} \) lb, \( \frac{7}{8} \) lb, \( \frac{1}{4} \) lb

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 Gianna unpacked than Joel?
   - A 1 box
   - B 2 boxes
   - C 2 \( \frac{1}{2} \) boxes
   - D 3 boxes

14. A rectangular park has a length of \( \frac{5}{6} \) mile and a width of \( \frac{3}{8} \) mile. Before Amanda finds the perimeter, she wants to determine a reasonable answer. Which calculation should she use?
   - F \( \frac{1}{2} + \frac{1}{2} = 1 \) mile
   - G \( 1 + 1 = 2 \) miles
   - H \( 1 + \frac{1}{2} + 1 + \frac{1}{2} = 3 \) miles
   - I \( 1 + 1 + 1 + 1 = 4 \) miles

15. The colors in a balloon bouquet are \( \frac{3}{10} \) green, \( \frac{2}{10} \) yellow, and \( \frac{5}{10} \) red. What fraction of the balloon bouquet is red or yellow?
   - A \( \frac{4}{5} \)
   - B 7
   - C \( \frac{1}{10} \)
   - D \( \frac{3}{10} \)
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?

- $F\, 1\,\frac{1}{24}$ yards
- $\bigcirc\, 2\,\frac{1}{24}$ yards
- $H\, 2\,\frac{1}{12}$ yards
- $I\, 2\,\frac{1}{3}$ 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?

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

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

3, 6, 12, 24, 48, …

- $F\, 51, 54, 57$
- $G\, 54, 60, 66$
- $H\, 72, 96, 120$
- $D\, 96, 192, 384$

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?

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

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