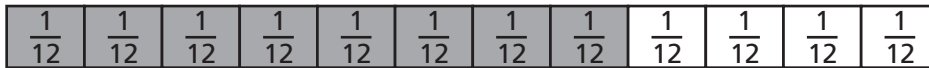**Fill in the circle for the correct answer.**

1. Which shows the shaded part of the
fraction bar as the product of a whole number
and a unit fraction?

| $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ |

Ⓐ $\frac{4}{12} = 4 \cdot \frac{1}{12}$ Ⓒ $\frac{8}{12} = 8 \cdot \frac{1}{12}$

Ⓑ $\frac{4}{12} = 4 \cdot \frac{4}{12}$ Ⓓ $\frac{8}{12} = 8 \cdot \frac{8}{12}$

Solve.   *Show your work.*

2. Kyle grates $\frac{4}{8}$ pound of cheese for enchiladas.
He grates $\frac{2}{8}$ pound of cheese for tacos. Which
equation can be used to find how much cheese
Kyle grates in all?

Ⓕ $c = \frac{4}{8} + \frac{2}{8}; \frac{6}{8}$ pound   Ⓗ $c = \frac{4}{8} + \frac{2}{8}; \frac{6}{16}$ pound

Ⓖ $c = \frac{4}{8} - \frac{2}{8}; \frac{2}{8}$ pound   Ⓚ $c = \frac{4}{8} - \frac{2}{8}; \frac{2}{16}$ pound

3. Sam rides his bike $\frac{6}{10}$ mile to the mall. This is $\frac{4}{10}$ mile
farther than he rides to the gym. Which equation can
be used to find how far Sam rides to the gym?

Ⓐ $\frac{6}{10} - r = \frac{4}{10}; \frac{2}{20}$ mile   Ⓒ $r = \frac{6}{10} + \frac{4}{10}; \frac{10}{20}$ mile

Ⓑ $\frac{6}{10} - r = \frac{4}{10}; \frac{2}{10}$ mile   Ⓓ $r = \frac{6}{10} + \frac{4}{10}; \frac{10}{10}$ or 1 mile

4. Mehira uses $\frac{3}{4}$ yard of fabric to cover a chair seat.
Which equation can be used to find how many yards
she needs to cover 4 chair seats?

Ⓕ $f = 4 + \frac{3}{4}; \frac{7}{4}$ yards or $1\frac{3}{4}$ yards   Ⓗ $f = 4 \cdot \frac{3}{4}; \frac{7}{4}$ yards or $1\frac{3}{4}$ yards

Ⓖ $f = 4 + \frac{3}{4}; 4\frac{3}{4}$ yards   Ⓚ $f = 4 \cdot \frac{3}{4}; \frac{12}{4}$ yards or 3 yards

Which fraction completes the equation?

5. $\frac{5}{6} = \frac{2}{6} + \frac{2}{6} + \blacksquare$

  (A) $\frac{1}{6}$ (C) $\frac{3}{6}$

  (B) $\frac{2}{6}$ (D) $\frac{4}{6}$

6. $\frac{8}{8} = \frac{5}{8} + \blacksquare$

  (F) $\frac{1}{8}$ (H) $\frac{3}{8}$

  (G) $\frac{2}{8}$ (K) $\frac{5}{8}$

7. $\frac{9}{12} = \frac{5}{12} + \blacksquare$

  (A) $\frac{3}{12}$ (C) $\frac{5}{12}$

  (B) $\frac{4}{12}$ (D) $\frac{7}{12}$

Which shows the fraction as a product of a whole number and a unit fraction?

8. $\frac{9}{10} = \blacksquare$

  (F) $9 \cdot \frac{1}{10}$ (H) $10 \cdot \frac{1}{10}$

  (G) $9 \cdot \frac{9}{10}$ (K) $10 \cdot \frac{9}{10}$

9. $\frac{2}{5} = \blacksquare$

  (A) $5 \cdot \frac{2}{5}$ (C) $2 \cdot \frac{2}{5}$

  (B) $5 \cdot \frac{1}{5}$ (D) $2 \cdot \frac{1}{5}$

Multiply.

10. $9 \cdot \frac{1}{8} = \blacksquare$

  (F) $\frac{8}{8}$ or 1   (H) $\frac{10}{8}$ or $1\frac{2}{8}$

  (G) $\frac{9}{8}$ or $1\frac{1}{8}$ (K) $\frac{11}{8}$ or $1\frac{3}{8}$

11. $4 \times \frac{1}{2} = \blacksquare$

  (A) $\frac{8}{2}$ or 4   (C) $\frac{4}{2}$ or 2

  (B) $\frac{5}{2}$ or $2\frac{1}{2}$ (D) $\frac{3}{2}$ or $1\frac{1}{2}$

12. $5 \cdot \frac{3}{5} = \blacksquare$

  (F) $\frac{15}{3}$ or 5   (H) $\frac{10}{3}$ or $3\frac{1}{3}$

  (G) $\frac{15}{5}$ or 3   (K) $\frac{8}{5}$ or $1\frac{3}{5}$

13. $7 \cdot \frac{3}{4} = \blacksquare$

  (A) $\frac{10}{4}$ or $2\frac{2}{4}$ (C) $\frac{21}{4}$ or $5\frac{1}{4}$

  (B) $\frac{11}{3}$ or $3\frac{2}{3}$ (D) $\frac{28}{3}$ or $9\frac{1}{3}$

Add or subtract.

14. $\frac{4}{10} + \frac{3}{10} = \blacksquare$

 Ⓕ $\frac{1}{20}$

 Ⓖ $\frac{7}{20}$

 Ⓗ $\frac{1}{10}$

 Ⓚ $\frac{7}{10}$

15. $\frac{3}{4} - \frac{2}{4} = \blacksquare$

 Ⓐ $\frac{1}{8}$

 Ⓑ $\frac{1}{4}$

 Ⓒ $\frac{2}{4}$

 Ⓓ $\frac{5}{8}$

16. $\frac{8}{5} + \frac{4}{5} = \blacksquare$

 Ⓕ $\frac{12}{5}$ or $2\frac{2}{5}$

 Ⓖ $\frac{12}{10}$ or $1\frac{2}{10}$

 Ⓗ $\frac{4}{5}$

 Ⓚ $\frac{4}{10}$

17. $\frac{5}{8} - \frac{4}{8} = \blacksquare$

 Ⓐ $\frac{9}{16}$

 Ⓑ $\frac{2}{8}$

 Ⓒ $\frac{1}{8}$

 Ⓓ $\frac{1}{16}$

18. $9\frac{7}{12} - 6\frac{5}{12} = \blacksquare$

 Ⓕ $3\frac{10}{12}$

 Ⓖ $3\frac{2}{12}$

 Ⓗ $2\frac{10}{12}$

 Ⓚ $2\frac{2}{12}$

19. $4\frac{1}{6} + 2\frac{5}{6} = \blacksquare$

 Ⓐ 7

 Ⓑ 6

 Ⓒ $2\frac{4}{6}$

 Ⓓ $1\frac{1}{6}$

20.
$$2\frac{7}{10}$$
$$+\,3\frac{9}{10}$$

 Ⓕ $5\frac{4}{10}$

 Ⓖ $5\frac{6}{10}$

 Ⓗ $6\frac{4}{10}$

 Ⓚ $6\frac{6}{10}$

21.
$$7\frac{2}{5}$$
$$-\,2\frac{4}{5}$$

 Ⓐ $4\frac{2}{5}$

 Ⓑ $4\frac{3}{5}$

 Ⓒ $5\frac{2}{5}$

 Ⓓ $5\frac{3}{5}$

22.
$$5$$
$$-\,3\frac{5}{8}$$

 Ⓕ $1\frac{3}{8}$

 Ⓖ 2

 Ⓗ $2\frac{3}{8}$

 Ⓚ 3

Solve.   *Show your work.*

23. Erin measures $\frac{3}{4}$ inch of snow. It snows some more.
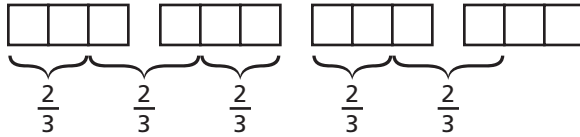Now there are $3\frac{1}{4}$ inches of snow. How many more
inches of snow fell?

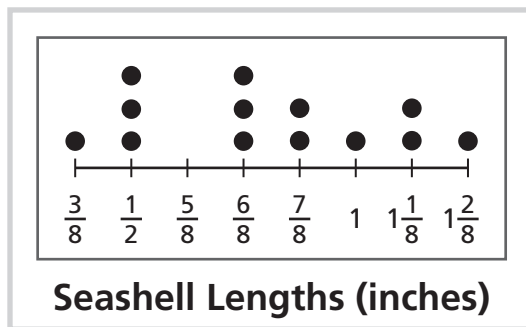 Ⓐ $3\frac{2}{4}$ inches   Ⓒ $2\frac{2}{4}$ inches

 Ⓑ $3\frac{1}{4}$ inches   Ⓓ $2\frac{1}{4}$ inches

24. Jorge volunteers $\frac{2}{3}$ hour at the animal shelter on Wednesday. He volunteers 5 times as many hours on Saturday. How many hours does Jorge volunteer on Saturday?

$$\underbrace{\boxed{}}_{\frac{2}{3}}\ \underbrace{\boxed{}}_{\frac{2}{3}}\ \underbrace{\boxed{}}_{\frac{2}{3}}\ \underbrace{\boxed{}}_{\frac{2}{3}}\ \boxed{}_{\frac{2}{3}}$$

Ⓕ $2\frac{2}{3}$ hours

Ⓗ $3\frac{2}{3}$ hours

Ⓖ $3\frac{1}{3}$ hours

Ⓚ $4\frac{1}{3}$ hours

25. The line plot shows the lengths of some seashells Colton collected at the beach.

Seashell Lengths (inches)

Colton wants to glue some shells along a 4-inch edge of a picture frame. Which combination of shells would **not** work?

Ⓐ all of the $\frac{6}{8}$-inch and $\frac{7}{8}$-inch shells

Ⓑ one $\frac{6}{8}$-inch shell, and all of the 1-inch and $1\frac{1}{8}$-inch shells

Ⓒ two $\frac{1}{2}$-inch shells, and all of the $\frac{7}{8}$-inch and $1\frac{2}{8}$-inch shells

Ⓓ two $\frac{6}{8}$-inch shells and all of the $\frac{3}{8}$-inch and $1\frac{1}{8}$-inch shells