

1 How is 32,870,412 written with words?

(A) Thirty-two thousand, eight hundred seventy thousand, four hundred twelve

(B) Thirty-two billion, eight hundred seventy million, four hundred twelve

(C) Thirty-two million, eight hundred seventy thousand, four hundred twelve

(D) Thirty-two billion, eight hundred seventy thousand, four hundred twelve

2 A scientist measured the mass of 3 frogs.

Frog	Mass (kg)
A	0.3
B	0.275
C	0.29

Which lists the frogs in order from the least mass to the greatest mass?

(A) B, C, A (B) A, B, C

(C) C, A, B (D) C, B, A

3 The United States produced between 8,500,000,000 and 9,000,000,000 bushels of corn last year. Which could be the number of bushels of corn that the United States produced last year?

(A) 8,567,000 bushels (B) 8,795,000,000 bushels

(C) 9,237,000 bushels (D) 9,874,360,000 bushels

4 Gustavo measured the length of his pet snake and found it to be 1.02 meters long. Which shows another way to represent the length in meters of the snake?

(A) One and two tenths

(B) One hundred two

(C) One and two hundredths

(D) Ten and two hundredths

5 Audrey's science experiment requires fifteen thousandths of a liter of saline solution. How is fifteen thousandths written as a number?

(A) 0.15

(B) 1.005

(C) 1.500

(D) 0.015

1 Makayla wrote a 12-digit number that had a 6 in the millions place. Which could be the number that Makayla wrote?

(A) 136,450,320,780

(B) 139,456,320,780

(C) 139,450,326,780

(D) 139,465,320,780

2 Christopher is more than 1.5 meters tall. Which could be Christopher's height in meters?

(A) 1.05 meters

(B) 1.495 meters

(C) 1.005 meters

(D) 1.505 meters

3 The table shows the amount in grams of 4 spices in a soup.

Salt	Cayenne	Paprika	Cumin
6.4	6.499	6.5	6.415

Which shows another way to represent the amount of cayenne in the soup?

(A) Six hundred forty-nine and nine thousandths grams

(B) Sixty-four and ninety-nine hundredths grams

(C) Six and four hundred ninety-nine thousandths grams

(D) Six thousand, four hundred ninety-nine grams

4 It took Shania 4.705 minutes to run one kilometer. Which digit in the number is in the tenths place?

(A) 7 (B) 5 (C) 4 (D) 0

5 Which shows another way to represent 3,062,005,071?

(A) 3,000,000 + 600,000 + 20,000 + 5,000 + 70 + 1

(B) 3,000,000,000 + 60,000,000 + 2,000,000 + 5,000 + 70 + 1

(C) 30,000,000 + 6,000,000 + 20,000 + 5,000 + 70 + 1

(D) 3,000,000,000 + 6,000,000 + 200,000 + 5,000 + 70 + 1

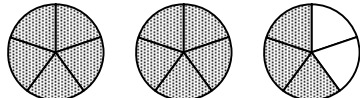
1 Joshua will write a number in the square to make the equation true.

$$\frac{8}{9} = \frac{\square}{36}$$

Which number makes the equation true?

(A) 4 (B) 16
(C) 24 (D) 32

2 Megan drew a model of a mixed number.



Which improper fraction describes the model?

(A) $\frac{5}{3}$ (B) $\frac{13}{5}$
(C) $\frac{12}{5}$ (D) $\frac{10}{2}$

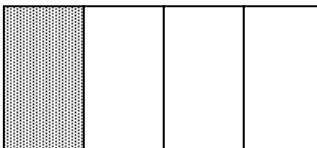
3 The table shows what fraction of a foot 4 students grew last year.

Amanda	$\frac{1}{4}$
Diego	$\frac{3}{6}$
Quanda	$\frac{6}{12}$
Elijah	$\frac{2}{3}$

Which student grew the most last year?

(A) Amanda (B) Diego
(C) Quanda (D) Elijah

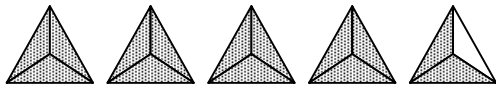
4 Look at the fraction model.



Which fraction is equivalent to the shaded part of the model?

(A) $\frac{5}{30}$ (B) $\frac{1}{8}$
(C) $\frac{25}{100}$ (D) $\frac{20}{60}$

5 Shu-Fang drew a model to represent the fraction $\frac{14}{3}$.



How is $\frac{14}{3}$ written as a mixed number?

(A) $4 \frac{2}{3}$ (B) $5 \frac{1}{3}$ (C) $4 \frac{3}{3}$ (D) $4 \frac{2}{5}$

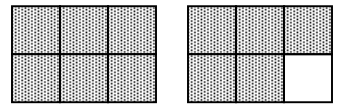
1 Steven drank less than $\frac{1}{2}$ pint of juice this morning with his breakfast. Which fraction could be the amount of juice Steven drank this morning?

(A) $\frac{4}{8}$ pint (B) $\frac{6}{10}$ pint (C) $\frac{3}{8}$ pint (D) $\frac{5}{10}$ pint

2 Two jars of the same size and shape contain buttons. One jar is $\frac{3}{4}$ full and the other is $\frac{2}{3}$ full. Which shows a way to correctly compare the two fractions?

(A) $\frac{3}{4} < \frac{2}{3}$ (B) $\frac{6}{8} = \frac{4}{6}$ (C) $\frac{2}{3} = \frac{3}{4}$ (D) $\frac{9}{12} > \frac{8}{12}$

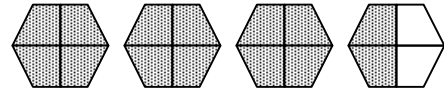
3 Look at the model.



Which improper fraction describes the shaded part of the model?

(A) $\frac{11}{6}$ (B) $\frac{6}{5}$
(C) $\frac{10}{6}$ (D) $\frac{12}{5}$

4 Look at the model.



Which mixed number describes the shaded part of the model?

(A) $4 \frac{2}{4}$ (B) $3 \frac{2}{4}$
(C) $3 \frac{2}{16}$ (D) $4 \frac{2}{8}$

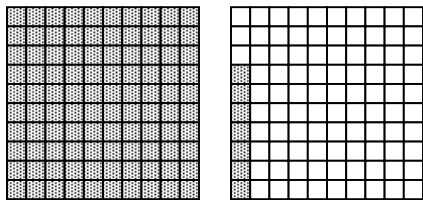
5 Olivia placed a checkmark above the multiplication problems she solved correctly.

✓ $\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$	$\begin{array}{r} 12 \\ \times 8 \\ \hline 82 \end{array}$	✓ $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$	✓ $\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$	$\begin{array}{r} 12 \\ \times 7 \\ \hline 76 \end{array}$	✓ $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$	$\begin{array}{r} 12 \\ \times 9 \\ \hline 96 \end{array}$	✓ $\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$	✓ $\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$
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What fraction of the problems did Olivia solve correctly?

(A) $\frac{6}{12}$ (B) $\frac{2}{3}$ (C) $\frac{3}{6}$ (D) $\frac{3}{4}$

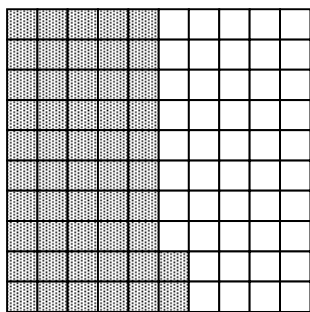
1 The model is shaded to represent $1\frac{7}{100}$.



Which number does the model represent?

- (A) 1.7 (B) 1.07
(C) 1.007 (D) 17.0

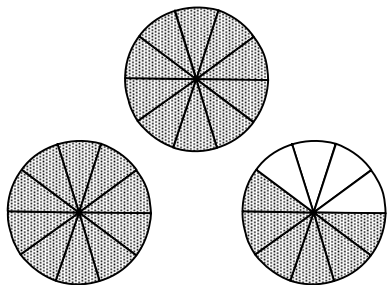
2 Richard shaded 0.52 of the model below.



Which fraction represents the shaded part of the model?

- (A) $\frac{52}{1,000}$ (B) $\frac{52}{10}$
(C) $\frac{52}{100}$ (D) $\frac{25}{100}$

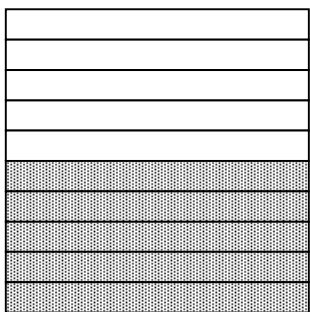
3 Kimberly shaded the model below to show $2\frac{6}{10}$.



Which number does the model represent?

- (A) 2.6 (B) 2.06
(C) 26.0 (D) 20.6

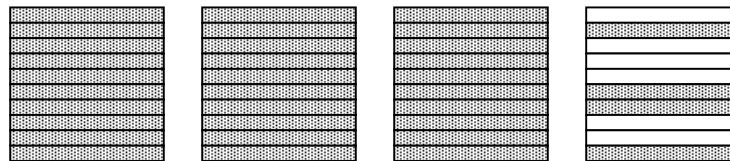
4 Nakeisha shaded the model below.



Which number represents the shaded portion of the model?

- (A) 0.005 (B) 5.5
(C) 0.05 (D) 0.5

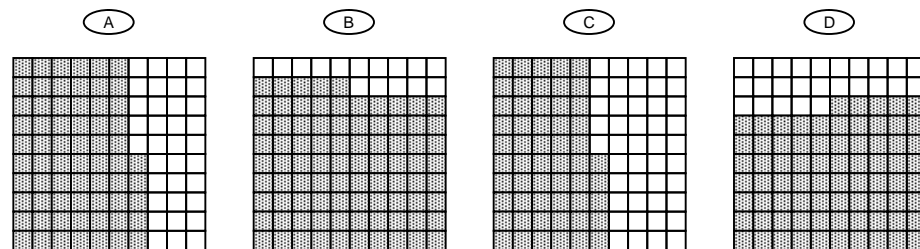
1 A teacher shaded 3.4 of the model shown below.



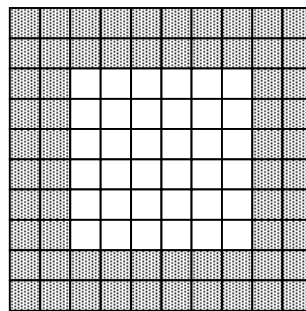
Which mixed number does the model show?

- (A) $3\frac{4}{100}$ (B) $3\frac{6}{10}$ (C) $3\frac{4}{10}$ (D) $4\frac{4}{10}$

2 Which model is shaded to represent 0.75?



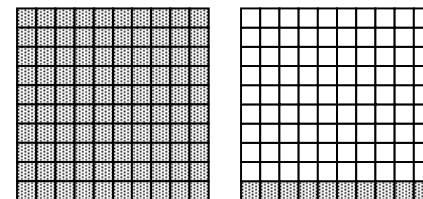
3 Alejandro shaded the model below.



Which number represents the shaded part of the model?

- (A) 0.064 (B) 0.64
(C) 6.4 (D) 0.36

4 Maksim shaded the model below to show $1\frac{10}{100}$.



Which number does the model represent?

- (A) 1.01 (B) 0.11
(C) 11.0 (D) 1.10

1 Ms. King gathered 600 berries in the field beside her house. She will place all of the berries in 15 containers, and she will place the same number in each container. How many berries will she place in each container?

(A) 35 (B) 40
 (C) 45 (D) 50

2 The area of Hawaii is 10,932 square miles and the area of Alaska is 656,425 square miles. How much greater is the area of Alaska than the area of Hawaii in square miles?

(A) 667,357 (B) 646,513
 (C) 645,493 (D) 646,693

3 The fifth-graders at Quinton's school are going on a study trip to the zoo. Each student will pay \$9 to enter the zoo and \$5 to pay for lunch. If 124 students are going to the zoo, how much will they pay to enter the zoo altogether?

(A) \$1,736 (B) \$1,086
 (C) \$916 (D) \$1,116

4 Forty-five teachers are going to meet after school in the library. If each table in the library can seat 6 teachers, what is the minimum number of tables needed to seat all the teachers?

(A) 4 (B) 8
 (C) 7 (D) 12

5 Ronald tracked how many kilometers he rode his bike on three days last week. He cycled 46.8 kilometers on Monday, 52.3 kilometers on Tuesday, and 60 kilometers on Wednesday. How many kilometers did Ronald cycle?

(A) 159.1 km (B) 99.1 km
 (C) 99.7 km (D) 105.1 km

6 Eighteen vans will be used to take the members of a high school band to a concert on April 16. Each van will carry 12 members of the band. How many members of the band will ride to the concert in the vans?

(A) 54 (B) 192
 (C) 216 (D) 288

1 Mr. Jiāng will climb to the top of a mountain over a 2-day period. On the first day he will climb 9,408 feet and on the second day he will climb 11,950 feet. How many feet will he have climbed altogether at the end of the second day?

(A) 2,542 ft (B) 20,358 ft
 (C) 21,258 ft (D) 21,358 ft

2 There are 28 students in Kamau's fifth grade class. If each student reads 14 novels this year, what will be the total number of novels they read?

(A) 392 novels
 (B) 384 novels
 (C) 362 novels
 (D) 140 novels

3 Shaquana's basketball team won 156 games last season. The season was 4 months long, and the team won the same number of games each month. How many games did Shaquana's team win each month last season?

(A) 36 (B) 39
 (C) 41 (D) 42

4 Janette poured 3,405.5 milliliters of water into a jar. After one month some of the water evaporated. If 2,212.3 milliliters of water remained in the jar, how many milliliters of water must have evaporated after one month?

(A) 5,617.8 (B) 1,213.2
 (C) 1,293.1 (D) 1,193.2

5 A rancher bought 325 cows. He needs to separate the cows into pens. If each pen can hold no more than 75 cows, how many pens will the rancher need to hold all of the cows?

(A) 4 pens
 (B) 3 pens
 (C) 5 pens
 (D) 2 pens

6 A *fortnight* is a period of time that is equivalent to 14 days. How many days are equivalent to 120 fortnights?

(A) 168 days
 (B) 1,680 days
 (C) 492 days
 (D) 1,280 days

1 Which lists all of the common factors of 15 and 75?

(A) 1, 3, 5

(B) 1, 3, 5, 15

(C) 1, 3, 5, 15, 25, 75

(D) 1, 3, 5, 7, 15

2 Which lists all of the common factors of 12, 24, and 60?

(A) 1, 2, 3, 4, 6, 12

(B) 1, 2, 3, 12, 24, 60

(C) 1, 2, 3, 4, 8, 12

(D) 1, 2, 3, 4, 5, 10, 20, 30

3 Which lists all of the common factors of 10, 15, 25, and 100?

(A) 1, 2, 5, 10, 15, 25, 50, 100

(B) 1, 2, 5, 10

(C) 1, 2, 5, 10, 25

(D) 1, 5

4 Which lists all of the common factors of 17 and 51?

(A) 1, 3, 7, 17

(B) 1, 17

(C) 1, 3, 17, 51

(D) 1, 2, 3, 7

5 Which lists all of the common factors of 16, 24, and 48?

(A) 1, 3, 4, 8, 16

(B) 1, 2, 4, 12, 16

(C) 1, 2, 4, 8

(D) 1, 2, 3, 6

6 Which lists all of the common factors of 9 and 90?

(A) 1, 3, 9

(B) 1, 3, 9, 10

(C) 1, 3, 9, 10, 30

(D) 1, 9, 90

1 Which lists all of the common factors of 6, 18, and 30?

(A) 1, 2, 3, 4

(B) 1, 2, 3, 9

(C) 1, 2, 3, 12

(D) 1, 2, 3, 6

2 Which lists all of the common factors of 12, 24, 40, and 60?

(A) 1, 2, 3, 4, 6, 12

(B) 1, 3, 8, 12

(C) 1, 2, 4

(D) 1, 2, 4, 6

3 Which lists all of the common factors of 20 and 50?

(A) 1, 2, 4, 5

(B) 1, 2, 5, 10

(C) 1, 2, 5, 10, 20

(D) 1, 2, 5, 10, 50

4 Which lists all of the common factors of 21 and 28?

(A) 1, 3, 7

(B) 1, 7

(C) 1, 3, 4, 7

(D) 1, 3, 7, 21

5 Which lists all of the common factors of 8, 32, and 40?

(A) 1, 2, 4, 8, 16, 32, 40

(B) 1, 2, 3, 4

(C) 1, 2, 4, 8, 16

(D) 1, 2, 4, 8

6 Which lists all of the common factors of 25, 50, and 100?

(A) 1, 5, 25

(B) 1, 5, 25, 50

(C) 1, 2, 5, 25

(D) 1, 5, 10, 25