

1 Which group contains an equal fraction, decimal, and percent?

A $\frac{1}{2}$, 50.0, 50%

B $\frac{4}{5}$, 0.80, 80%

C $\frac{2}{3}$, 0.75, 75%

D $\frac{1}{4}$, 2.5, 25%

2 It was estimated in 2010 that 66% of the U.S. population was 35 years of age or older. What is the best estimate of the population that was younger than 35?

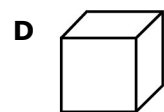
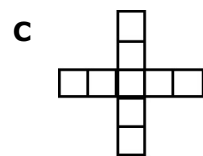
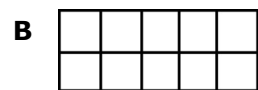
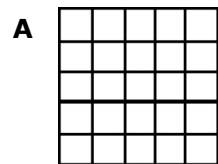
F 44%

G $\frac{2}{3}$

H $\frac{1}{3}$

J 0.66

3 Which of these models represents 5^2 ?



4 The Steeles are buying a home. The table shows the interest rates for home loans at four different banks.

Home Loans

Bank	Interest Rate
Bank A	$7\frac{3}{8}\%$
Bank B	$7\frac{1}{2}\%$
Bank C	$7\frac{3}{5}\%$
Bank D	$7\frac{3}{7}\%$

Which bank had the LOWEST interest rate for home loans?

F Bank A

G Bank B

H Bank C

J Bank D

5 The number of seats available at a football stadium is 655. During a football game, 393 seats were filled. What percent of the seats at the football stadium were filled?

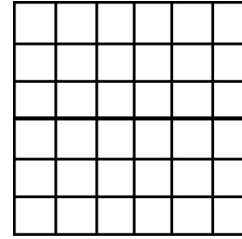
6 On a test, Henry answered $\frac{4}{5}$ of the questions correctly, Alex answered $\frac{3}{4}$ of the questions correctly, Sandra answered $\frac{7}{10}$ of the questions correctly, and Maria answered $\frac{13}{20}$ of the questions correctly.

Who answered the MOST questions correctly?

- F** Henry
- G** Alex
- H** Sandra
- J** Maria

7 Explain how you determined your answer for the previous question.

8 The model below can be used to represent the area of a square with a side length of 6 units.



What is another way to represent the length of the side of the square?

- F** $\sqrt{6}$
- G** $\sqrt{36}$
- H** 36
- J** 6^2

- 9 During a survey, 100 shoppers were asked to name their favorite fruit. The table shows the types of fruit and fractional amount of each fruit chosen during the survey.

Favorite Fruit	Fraction
Banana	$\frac{2}{5}$
Apple	$\frac{21}{100}$
Orange	$\frac{4}{25}$
Strawberry	$\frac{23}{100}$

What is the percent for each type of fruit?

Favorite Fruit	Percent
Banana	
Apple	
Orange	
Strawberry	

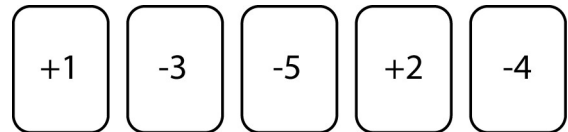
- 10 In Minnesota during the winter, Jaime recorded the temperatures in the table below.

Time	Temperature
8:00 AM	- 15°
10:00 AM	- 8°
12:00 PM	12°
2:00 PM	10°

Which of these shows the temperatures from WARMEST to COLDEST?

- F -15°, 12°, 10°, -8°
 G 12°, 10°, -8°, -15°
 H 10°, 12°, -8°, -15°
 J -8°, 10°, 12°, -15°

- 11 Elliott was given these integer cards to put in order from LEAST to GREATEST.



Which list shows these integers in order from LEAST to GREATEST?

- A - 5, - 4, - 3, +1, +2
 B - 5, - 4, - 3, +2, +1
 C +2, +1, - 3, - 4, - 5
 D +2, +1, - 5, - 4, - 3

- 12** An arrangement of twelve rows of twelve circles can be used as a model to represent what value of what perfect square?

F 12
G 24
H 48
J 144

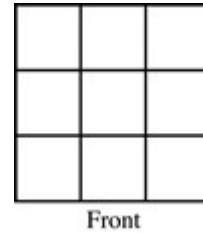
- 13** The table below shows the 6:00 a.m. temperatures, in degrees Fahrenheit, in New York City for one week in January.

Day	Temperature (in °F)
Monday	13°
Tuesday	5°
Wednesday	- 7°
Thursday	0°
Friday	- 1°
Saturday	- 14°
Sunday	2°

Which conclusion can be drawn from the table?

- A** It was colder on Wednesday than on Saturday.
B The coldest day that week was Thursday.
C The warmest day that week was Tuesday.
D It was warmer on Friday than on Wednesday.

- 14** The diagram below shows the front face of a stack of identical cubes.



Which equation could be used to determine s , the length of a side of the front face?

- F** $s = \sqrt{9}$
G $s = \sqrt{3}$
H $s = 81$
J $s = 9$

- 15** Samantha's savings account paid 2.5% interest per month. Which of the following shows 2.5% as a fraction?

- A** $\frac{1}{4000}$
B $\frac{1}{400}$
C $\frac{1}{40}$
D $\frac{1}{4}$

- 16** Lana wanted to buy some tile squares that are one square foot each. Her room is a square with an area 81 square feet. Draw a diagram that shows the total number and arrangement of tiles Lana will need to cover the floor.