

1 Which shows 50,470 in expanded notation?

- A $(5 \times 10,000) + (4 \times 100) + (7 \times 1)$
- B $(5 \times 10,000) + (4 \times 1,000) + (7 \times 10)$
- C $(5 \times 10,000) + (4 \times 100) + (7 \times 10)$
- D $(5 \times 1,000) + (4 \times 100) + (7 \times 10)$

2A

2 Which expression has the same value as the number 16,510?

- F $10,000 + 6,000 + 500 + 1$
- G $10,000 + 6,000 + 500 + 10$
- H $1,000 + 6,000 + 500 + 10$
- J $10,000 + 6,000 + 50 + 10$

2A

4 Chelsea wrote a number in expanded notation as shown here.

$$(8 \times 10,000) + (4 \times 1,000) + (7 \times 100) + (2 \times 1)$$

What is the standard form of the number?

- F 84,720
- G 84,072
- H 84,702
- J 8,472

2A

5 Which answer choice does NOT describe the number 3,250?

- A The sum of three thousands, two hundreds, and five tens
- B The sum of three thousands, two hundreds, and fifty ones
- C The sum of three thousands and twenty-five tens
- D The sum of three thousands, two hundreds, and fifty tens

6 An expression is shown.

$$5 + 800 + 60$$

What number is equivalent to the expression shown?

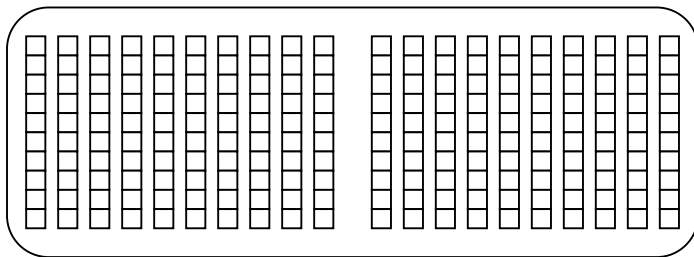
Enter your answer in the box.

2B

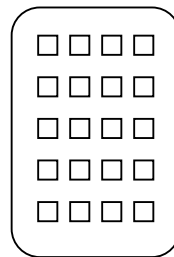
2A

3 Three students created models to represent numbers.

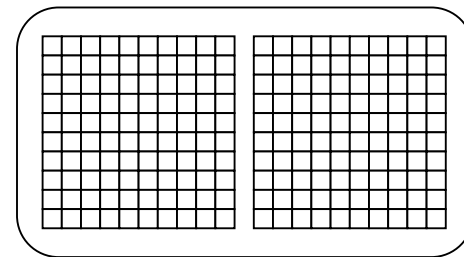
Eduardo's Model



Darika's Model



Robert's Model

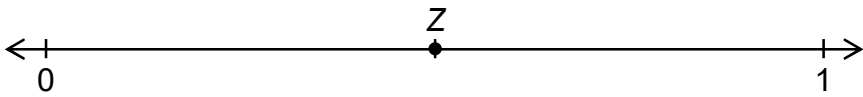


Which models represent the same number?

- A Robert's model and Eduardo's model, because 2 hundreds is equivalent to 20 tens.
- B Darika's model and Robert's model, because 20 ones is equivalent to 2 hundreds.
- C Darika's model and Eduardo's model, because 20 ones is equivalent to 20 tens.
- D None of the models represent the same number.

2B

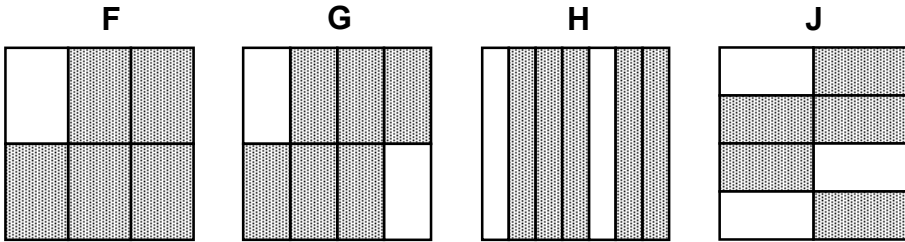
1 Point Z represents which fraction?



- A $\frac{2}{1}$ B $\frac{1}{3}$ C $\frac{1}{2}$ D $\frac{1}{4}$

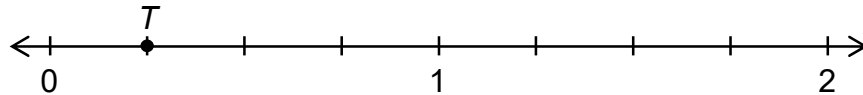
3B

2 Which figure is shaded to represent $\frac{5}{8}$?



3A

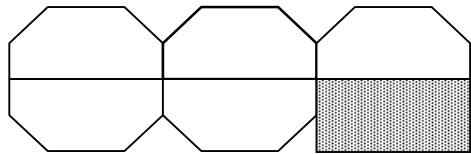
3 Point T represents which fraction?



- A $1\frac{1}{3}$ B $\frac{1}{4}$ C $1\frac{1}{4}$ D $\frac{1}{3}$

3B

4 A figure is split into six parts. One part is shaded.

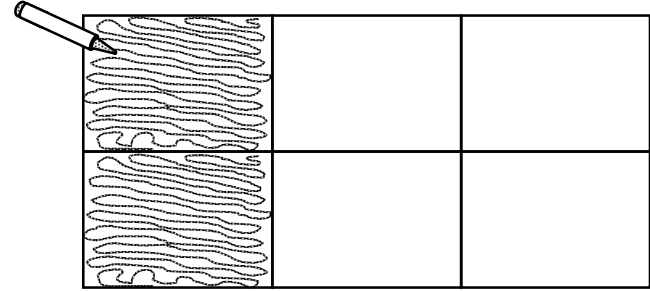


Does the model represent $\frac{1}{6}$?

- F No, because the six parts are not equal in size.
 G Yes, because one of six parts is shaded.
 H No, because the shaded part is a square.
 J Yes, because the shaded part is the largest part.

3C

5 Gemma is shading a fraction model. She has already shaded two parts as shown.

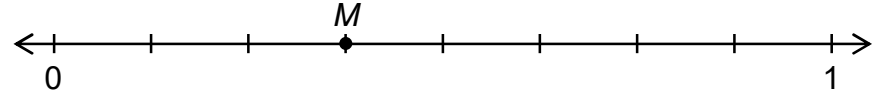


How many more parts should Gemma shade to represent the fraction $\frac{4}{6}$?

- A 2 B 4 C 1 D 3

3A

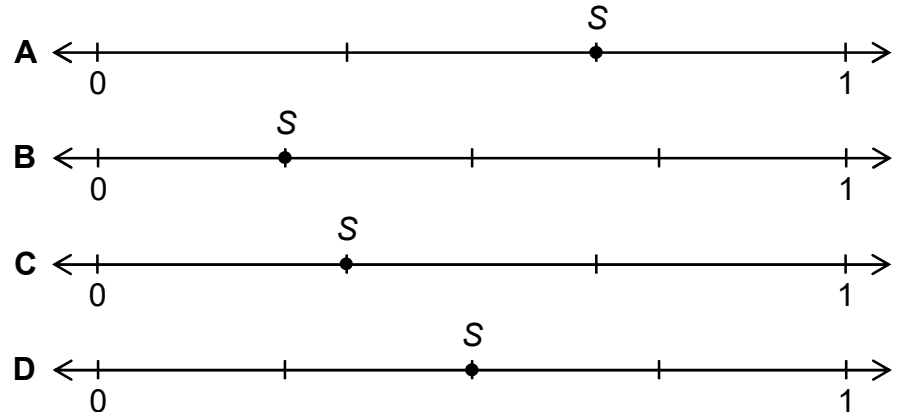
6 Point M represents which fraction?



- F $\frac{3}{5}$ G $\frac{3}{8}$ H $\frac{3}{6}$ J $\frac{3}{4}$

3B

7 Which shows point S at one third?



3B

1 The table shows the type and number of vitamin capsules that Bianca keeps in a container. How many vitamin capsules does Bianca keep in the container?

Type	Number
Vitamin C	78
Vitamin B	112
Vitamin D	92

- A** 252 **B** 282 **C** 302 **D** 272

4A

5 The table shows the weights of the books three students are carrying. What is the difference between the weight of Liam's books and the combined weight of Dale's and John's books?

Student	Weight (oz)
Dale	48
Liam	19
John	32

- F** 79 **G** 35 **H** 61 **J** 3

4A

2 Treveon has 331 baseball cards in his collection. This is 64 more than the number of cards in Graham's collection. How many baseball cards are in Graham's collection?

- F** 267 **G** 395 **H** 277 **J** 333

4A

6 A coach listed the number of each type of ball he kept in a storage closet.

- ♦ 29 basketballs ♦ 125 tennis balls ♦ 17 footballs

What is the total number of balls in the storage closet?

- A** 173 **B** 161 **C** 181 **D** None of these

4A

3 A pediatrician examined 287 patients in the month of June. She examined 268 patients in the month of July. What was the total number of patients she examined?

- A** 535 **B** 456 **C** 555 **D** 545

4A

7 Ms. Cooper has \$362 in her savings account. She will deposit \$225 into the account tomorrow. She will withdraw \$395 from the account next Tuesday. How much money will Ms. Cooper have in her account?

- F** \$532 **G** \$212 **H** \$982 **J** \$192

4A

4 Fran's Bakery sold 57 small cakes, 116 medium cakes, and 204 large cakes. How many more large than small cakes did the bakery sell?

Enter your answer in the box.

4A

8 Demari poured 165 mL of water into a cup. After he drank some of the water, there was 70 mL of water in the cup. How many milliliters of water did Demari drink?

Enter your answer in the box.

4A

1 Peter studied math, history, and science for a total of 279 minutes last week. The table shows the number of minutes he studied each subject.

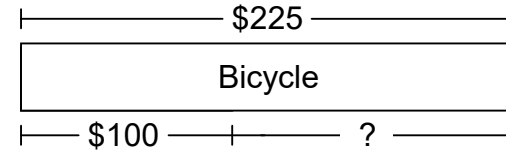
Math	128 minutes
History	?
Science	89 minutes

The number of minutes he studied history is missing from the table. Which set of equations can be used to find the number of minutes Peter studied history?

- A** $128 + 89 = 217$ **C** $279 - 128 = 151$
 $279 + 217 = \square$ $279 - 151 = \square$
B $128 - 89 = 39$ **D** $128 + 89 = 217$
 $279 - 39 = \square$ $279 - 217 = \square$

5A

3 Santiago is saving money to buy a bicycle that costs \$225. He has saved \$100 so far.



Which equation can Santiago use to find how much more money he needs to buy the bicycle?

- A** $225 + 100 = \square$ **C** $225 - 100 = \square$
B $125 - 100 = \square$ **D** $225 + 125 = \square$

5A

2 There are a total of 90 students playing on a blacktop.

- Of these students, 24 are in fifth grade and 22 are in fourth grade.
- The rest are in third grade.

Which model can be used to find the number of students in third grade?

F

?		
90	24	22

G

90		
24	22	?

H

24		
90	22	?

J

22		
90	24	?

5A

4 Cosette had a jar that contained 315 pennies.

- She added 75 more pennies to the jar this morning.
- She will take out 150 pennies this evening.

Which equation can be used to find the number of pennies that will be in the jar after this evening?

- F** $315 + 75 + 150 = \square$ **H** $315 - 75 + 150 = \square$
G $315 + 75 - 150 = \square$ **J** $315 - 75 - 150 = \square$

5A

5 Keshon bought a 145-page book on Saturday.

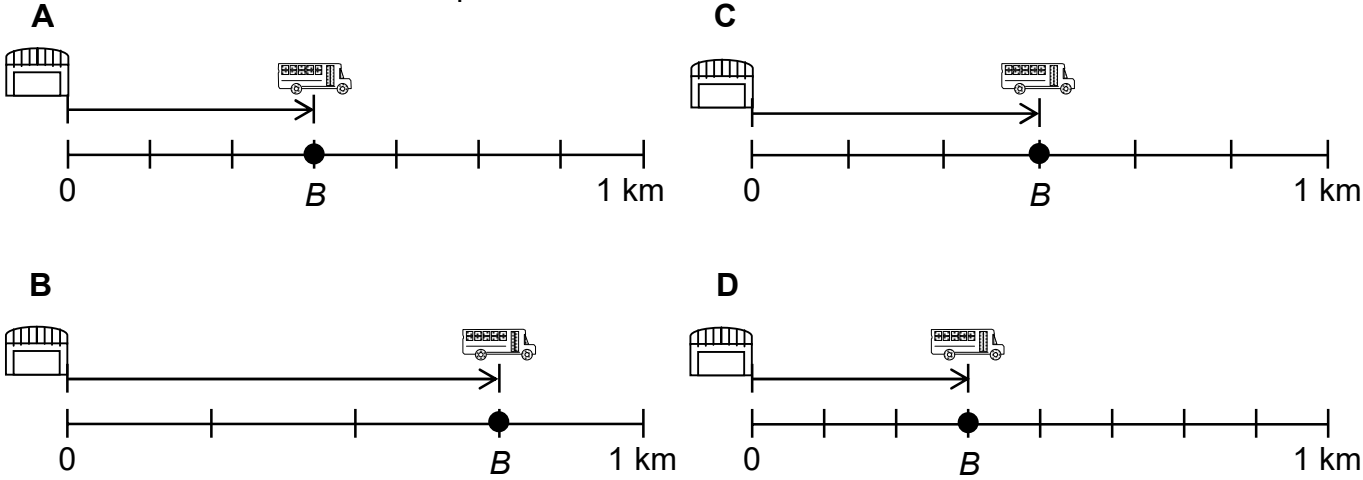
- He read 43 pages of the book on Saturday night and 67 pages on Sunday.
- He read the rest of the pages on Monday.

Which equation can be used to find the number of pages that Keshon read on Monday?

- A** $145 - 43 - 67 = \square$ **C** $145 + 43 + 67 = \square$
B $145 + 43 - 67 = \square$ **D** $67 - 43 = \square$

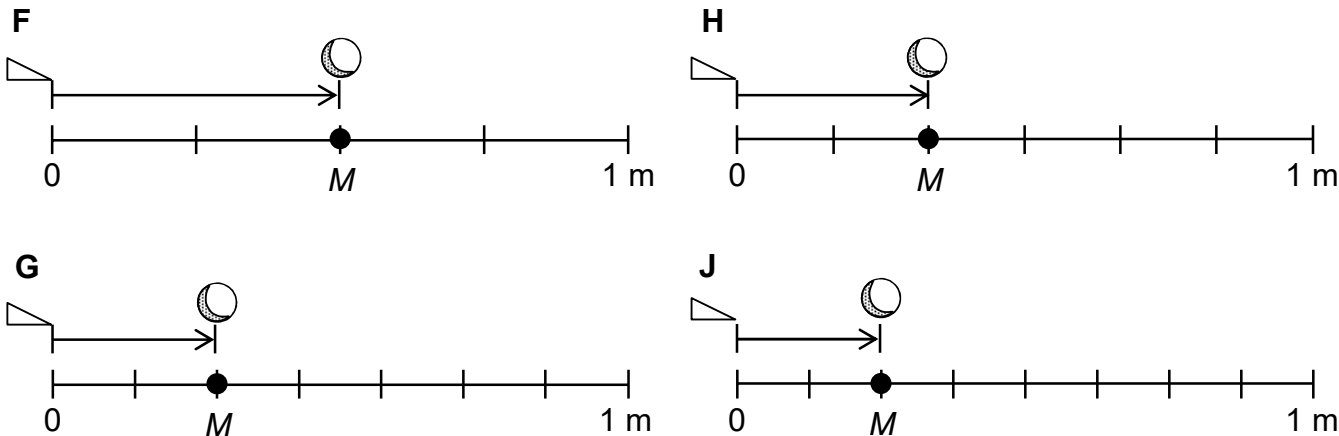
5A

1 A bus drove $\frac{3}{4}$ km away from a depot. On which number line does point B represent the position of the bus after driving $\frac{3}{4}$ km?



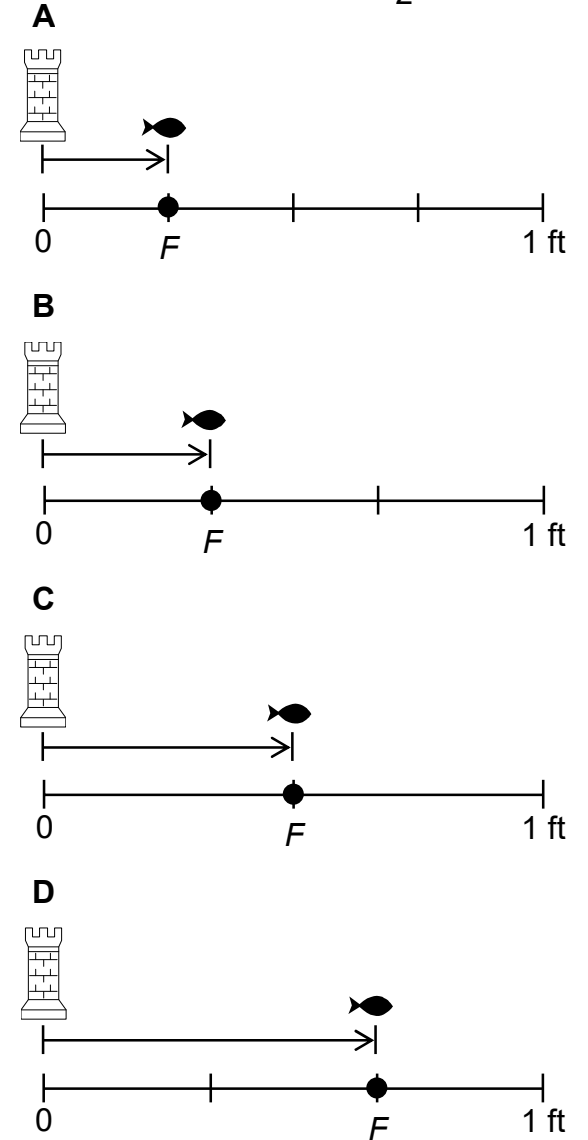
7A

2 A marble rolled $\frac{2}{8}$ meter after being released at the top of a ramp. On which number line does point M represent the position of the marble after rolling $\frac{2}{8}$ meter?



7A

3 A fish swam $\frac{1}{2}$ foot away from an aquarium ornament. On which number line does point F represent the position of the fish after swimming $\frac{1}{2}$ foot?



7A

1 Ms. Nichols works as an elementary school teacher. Which factor most likely affects the amount of money the school pays her?

- A** The number of staff meetings she is required to attend after school
- B** The distance her classroom is from the main office
- C** The number of teacher friends she has at the school
- D** The number of years of teaching experience she has

9A

3 The owner of a business borrowed \$9,000 from a bank. Which statement is true?

- A** He is expected to pay back exactly \$9,000 because that is the amount he borrowed.
- B** He is expected to pay back less than \$9,000 because most borrowers cannot afford to pay back their loans.
- C** He is expected to pay back more than \$9,000 because banks charge interest on loans.
- D** None of these

9D

5 After Keshawn completes high school, he may choose to attend a college or technical school. If he attends a college or technical school, Keshawn will increase his knowledge and skills. With more knowledge and skills, he may have a better chance to get a job that –

- A** requires little skill but pays well
- B** is challenging and pays well
- C** is boring and pays poorly
- D** requires great skill but pays poorly

9A

2 During years of good rainfall, soybean farmers grow a lot more soybeans than in years of poor rainfall. During a year of good rainfall, people should expect to pay –

- F** a higher price for soybeans, because there are less for sale
- G** a lower price for soybeans, because there are more for sale
- H** a higher price for soybeans, because there are more for sale
- J** a lower price for soybeans, because there are less for sale

9B

4 Monica earns \$12 each time she makes and sells a bracelet. Each time Monica is paid, she saves half of the money in a savings account at a local bank. She spends the other half of the money on jewelry supplies and entertainment. Monica could best use the money she saves in the bank to –

- F** pay for college or higher learning after completing high school
- G** pay for bracelets that have already been made
- H** pay for more entertainment
- J** pay for an expensive vacation

9E

6 During the winter months, Mary pays \$9 for a watermelon. During the summer months, she pays \$5 for a watermelon. Which best explains why people pay less for watermelons in summer than in winter?

- F** People have more money during the winter than the summer
- G** People like to eat watermelon during the summer months
- H** Watermelons are more plentiful during the summer months
- J** Watermelons are scarce during the summer months

9B