

## 6m\_Unit\_3\_9\_27\_18 - Question Set | 18 Questions | 19 Points

1

Bret drank  $\frac{1}{4}$  of a full bottle of juice. Tara drank  $\frac{1}{3}$  of what was left. Bret said they drank the same amount. Which statement proves that Bret's statement is true?

- A.  $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$
- B.  $\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$
- C.  $\frac{1}{3} \times \frac{3}{4} = \frac{1}{4}$
- D.  $\frac{3}{4} - \frac{1}{3} = \frac{5}{12}$

Item #19906

2

Which equation correctly shows how to divide  $\frac{3}{5}$  by  $\frac{2}{3}$ ?

- A.  $\frac{3}{5} \div \frac{2}{3} = \frac{5}{3} \times \frac{3}{2}$
- B.  $\frac{3}{5} \div \frac{2}{3} = \frac{3}{5} \times \frac{2}{3}$
- C.  $\frac{3}{5} \div \frac{2}{3} = \frac{3}{5} \times \frac{3}{2}$
- D.  $\frac{3}{5} \div \frac{2}{3} = \frac{5}{3} \times \frac{2}{3}$

Item #150914

3

Explain why dividing by 2 is the same as multiplying by  $\frac{1}{2}$ .

Item #8956

4

If a mixed number is multiplied by a fraction less than 1, what must be true of the product?

- A. The product will be less than the fraction.
- B. The product will be greater than the fraction and the mixed number.
- C. The product will be greater than the fraction but less than the mixed number.
- D. The product will always be less than 1.

Item #84870

5

Suppose you are multiplying  $3\frac{1}{2}$  by  $\frac{5}{c}$ . Which of the following is true?

- A.  $3\frac{1}{2} \times \frac{5}{c}$  will be less than  $3\frac{1}{2}$  if  $c$  is less than 5.
- B.  $3\frac{1}{2} \times \frac{5}{c}$  will be greater than  $3\frac{1}{2}$  if  $c$  is less than 5.
- C.  $3\frac{1}{2} \times \frac{5}{c}$  will be equal to  $3\frac{1}{2}$  if  $c$  is less than 5.
- D.  $3\frac{1}{2} \times \frac{5}{c}$  will be greater than  $3\frac{1}{2}$  if  $c$  is greater than 5.

Item #17910

6

Would the value of 12 be increased if 12 is multiplied by  $\frac{2}{3}$ ?

- A. Yes. If 12 is multiplied by  $\frac{2}{3}$ , it would be doubled and then divided by 3, so 12 would increase in value.
- B. Yes. If 12 is multiplied by  $\frac{2}{3}$ , the math would be  $(12 \times 3)/2 = 18$ , which is greater than 12.
- C. No. If 12 is multiplied by  $\frac{2}{3}$ , it would be doubled and then divided by 3, so 12 would decrease in value.
- D. No. If 12 is multiplied by  $\frac{2}{3}$ , it equals  $\frac{24}{36}$ , which is less than 1 and less than 12.

Item #24058

7

The choral director spends a total of \$371.25 on music books for his chorus. Each book costs \$13.75. How many music books did he buy?  
Record your answer on the grid below.

|     |     |     |     |     |   |
|-----|-----|-----|-----|-----|---|
|     |     |     |     |     | . |
| (+) | (0) | (0) | (0) | (0) |   |
| (-) | (1) | (1) | (1) | (1) |   |
|     | (2) | (2) | (2) | (2) |   |
|     | (3) | (3) | (3) | (3) |   |
|     | (4) | (4) | (4) | (4) |   |
|     | (5) | (5) | (5) | (5) |   |
|     | (6) | (6) | (6) | (6) |   |
|     | (7) | (7) | (7) | (7) |   |
|     | (8) | (8) | (8) | (8) |   |
|     | (9) | (9) | (9) | (9) |   |

Item #2471

8

An Internet Web site has an average of 527 hits per hour. At this rate, how many hits will it have in 8 hours?

- A. 535
- B. 4,166
- C. 4,216
- D. 4,243

Item #7710

9

Riverside Middle School is taking 425 people to a museum on a field trip. If each bus holds 37 people, how many buses will the school need?

- A. 10
- B. 11
- C. 12
- D. Not Here

Item #10507

10

In which set are all the numbers equivalent?

- A.  $\frac{12}{8}$ ,  $1\frac{3}{8}$ , 1.5
- B.  $\frac{6}{5}$ ,  $1\frac{1}{5}$ , 1.4
- C.  $\frac{12}{3}$ , 3, 3.0
- D.  $\frac{13}{5}$ ,  $2\frac{3}{5}$ , 2.6

Item #8172

11

At Jen's birthday party, 75% of the guests wore shorts. All other guests wore pants. What fraction represents the number of guests who wore pants?

- A.  $\frac{1}{75}$
- B.  $\frac{1}{25}$
- C.  $\frac{1}{4}$
- D.  $\frac{3}{4}$

Item #13527

Which of the following fractions has a value closest to 0.24?

- A.  $1/8$
- B.  $1/5$
- C.  $1/4$
- D.  $1/2$

Item #15057

| Name    | Percent of Votes |
|---------|------------------|
| Heather | 30%              |
| Kieran  | 24%              |
| Arina   | 18%              |
| Rupa    | 16%              |
| Justin  | 12%              |

The results of an election for class officers is shown in the table. If Heather received 75 votes, who received 40 votes?

- A. Kieran
- B. Arina
- C. Rupa
- D. Justin

Item #112910

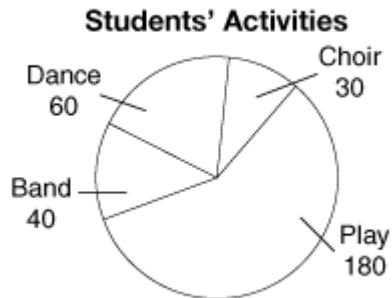


Noah expects to complete 80% to 95% of his math assignment by Wednesday. The assignment has 75 problems. About how many problems might he expect to complete by Wednesday?

- A. 49
- B. 58
- C. 65
- D. 73

Item #144912

This circle graph shows the number of students participating in various activities at school.



If each student participates in only one activity, which proportion can be used to find the percent of students who are in the band?

- A.  $\frac{40}{310} = \frac{x}{100}$
- B.  $\frac{40}{270} = \frac{x}{100}$
- C.  $\frac{40}{100} = \frac{x}{310}$
- D.  $\frac{40}{210} = \frac{x}{100}$

Item #113602

16

Which can be represented by the figures below?



- A.  $\frac{15}{6}$
- B.  $2\frac{3}{4}$
- C.  $\frac{17}{6}$
- D.  $2\frac{4}{5}$

Item #153803

17

A book has 244 pages. Theo has read 81 pages so far. About what percent of the book has Theo read?

- A. 82%
- B. 66%
- C. 50%
- D. 33%

Item #156962

Which two fractions could be represented by the figure below?



- A.  $\frac{4}{6}$  and  $\frac{5}{12}$
- B.  $\frac{3}{4}$  and  $\frac{2}{3}$
- C.  $\frac{3}{9}$  and  $\frac{8}{12}$
- D.  $\frac{2}{3}$  and  $\frac{8}{12}$

Item #152151