

Comparing sets of data using bar or line graphs

Up to now, the graphs you have been working on displayed only one set of data. The graphs on this lesson show how to compare two or more sets of data. For bar graphs, the bars are grouped together and the different sets will have different colors or designs to set them apart. For line graphs, the lines will also be different, in order to distinguish between them.

Parttime Employees Work Days

① How many more days did Ivy work in January than Marc did?
 $20 - 10 = 10$
10 more days

② How many days did Bert and Marc work in May?
 $15 + 5 = 20$
20 days

High Temperature during the first week in June

③ How much cooler was it on the second day of June in 2000 than in 2001?
 $26 - 24 = 2$
2° cooler

④ How much warmer was it on the third day of June in 2002 than in 2000?
 $26 - 22 = 4$
4° warmer

two hundred thousand, fifty-seven 200,057

3 hundreds, 4 thousands, 2 hundred thousands, 9 ones and 5 tens
 $200,057$
 $105,028$
 $+ 204,359$
509,444

It is 3:48 AM. In 60 minutes it will be 12 minutes before 5 AM.

$$\begin{array}{r} 60 \\ - 48 \\ \hline 12 \end{array}$$

It is 5:03 AM. 7 hours ago it was 3 minutes after 10 PM.

C 1,586 r9

$$\begin{array}{r} 976 \text{ r}3 \\ 5 \overline{)4,883} \\ \underline{-45} \\ 38 \\ \underline{-35} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

$$\begin{array}{r} 607 \text{ r}3 \\ 7 \overline{)4,252} \\ \underline{-42} \\ 5 \\ \underline{-49} \\ 3 \end{array}$$

$$\begin{array}{r} 3 \text{ r}3 \\ 32 \overline{)99} \\ \underline{-96} \\ 3 \end{array}$$

$$\begin{array}{r} 976 \text{ r}3 \\ 607 \text{ r}3 \\ + 3 \text{ r}3 \\ \hline 1,586 \text{ r}9 \end{array}$$

Circle the denominator of the fraction in the set with the least value.

$\frac{2}{1}, \frac{1}{3}, \frac{4}{4}, \frac{1}{7}, \frac{6}{2}, \frac{9}{9}$

↓ ↓ ↓ ↓ ↓ ↓

2 1 3 1

$\frac{9}{6} = 1 \frac{3}{6}$

$\frac{19}{6} = 3 \frac{1}{6}$

D 11 $\frac{4}{6}$

Write as a mixed number.

A 5 $\frac{95}{100}$

$2.37 = 2 \frac{37}{100}$

$1.08 = 1 \frac{8}{100}$

$2.50 = 2 \frac{50}{100}$

B \$479.27

$$\begin{array}{r} \$26.79 \\ 3.69 \\ \$4.53 \\ \times 43 \\ \hline 1359 \\ 18120 \\ \hline \$194.79 \end{array}$$

$$\begin{array}{r} \$40.20 \\ - 13.79 \\ \hline \$26.41 \end{array}$$

$$\begin{array}{r} \$29.76 \\ \times 6 \\ \hline \$178.56 \end{array}$$

$$\begin{array}{r} \$4.98 \\ \times 7 \\ \hline \$34.86 \end{array}$$

$$\begin{array}{r} \$194.79 \\ + 34.86 \\ \hline \$479.27 \end{array}$$

Which statements are true?

③ $4.1 > 4.09$ 5. $4.27 = 4.72$

$4 \frac{10}{100} < 4 \frac{09}{100}$ 4. $\frac{27}{100} > \frac{72}{100}$

4. $3.2 \neq 3.20$ 6. $3.46 < 3.39$

$3 \frac{20}{100} < 3 \frac{20}{100}$ $3 \frac{46}{100} < 3 \frac{39}{100}$

C 14

$12 \div 3 = 4$ $84 \div 12 = 7$

12 ft = 4 yd 84 in = 7 ft

$\frac{3}{5} + \frac{2}{5} = \frac{5}{5} = 1$

$\frac{4}{5} + \frac{4}{5} = \frac{8}{5} = 1 \frac{3}{5}$

$\$28.00 \div \$7.00 = 4$

$24 \div 4 = 6$

24 quarts = 6 gallons

D 12 $\frac{3}{5}$

Write as a decimal number.

$2 \frac{3}{5} = 2 \frac{6}{10} = 2.6$ $3 \frac{1}{2} = 3 \frac{5}{10} = 3.5$

(2.97, 2.95, 2.93, 2.91, 2.89, 2.87)

- .02

Three strips of ribbon are cut into fifths. How many fifths will there be?
 $3 \times 5 = 15$
15 fifths

E 26.86

$$\begin{array}{r} 2.6 \\ 3.5 \\ 2.89 \\ 2.87 \\ + 15 \\ \hline 26.86 \end{array}$$

Circle the denominator of the fraction in the set that best represents the shaded portion.

$(\frac{1}{4}, \frac{1}{2}, \frac{1}{8}, \frac{4}{5}, \frac{5}{6})$

What is the greatest common factor of 12 and 18?
12: 1, 12, 2, 6, 3, 4
18: 1, 18, 2, 9, 3, 6
6

What is the intersection of C and D?
C: (4, 8, 10, 15)
D: (10, 15, 20)
10, 15

F 39

Erik has 14 sweaters that he would like to divide equally among seven friends. Which equation shows how many sweaters each friend will get?

6. $14 \div 7 =$

7. $14 - 7 =$

8. $14 \times 7 =$

⑨ $14 \div 7 = 2$

Peter is 52 years old. Jack is 45 years old. Penny is 58 years old. How much older is Penny than Peter?

$$\begin{array}{r} 58 \\ - 52 \\ \hline 6 \end{array}$$

6 years

G 26

$$\begin{array}{r} 4 \\ 12 \\ \hline 4 \\ 15 \\ 18 \\ \hline 3 \\ 5 \\ 6 \\ \hline 3 \\ 6 \\ 8 \\ \hline 3 \\ 4 \end{array}$$

Forty-five people want to go on a trip. Each car will hold 6 people. How many cars will they need?

$$\begin{array}{r} 7 \text{ r}3 \\ 6 \overline{)45} \\ \underline{-42} \\ 3 \end{array}$$

8 cars

Ray and Reed have 10 animals. Reed has 2 more than Ray. How many animals does Reed have?

$6 + 4 = 10$

6 animals

What is the area of a rectangle that measures 8 in by 3 in?

$8 \times 3 = 24$

24 sq in

H 38