

Unit 3 Review

1. Estimate and then solve. Record a number sentence for your estimate.

a. $4.7 + 19 + 12.82 = ?$

Estimate: _____

Answer: _____

b. $? = 13 - 4.75$

Estimate: _____

Answer: _____

c. $? = 4.4 \times 7.3$

Estimate: _____

Answer: _____

d. $12.45 \div 4.98 = ?$

Estimate: _____

Answer: _____

2. A rectangular yard is 6.67 meters wide and 8.04 meters long.

How much fencing will it take to enclose the yard?

Number model: _____

Solution: _____

3. Ashley earns \$3,572.98 per month.

How much will she have left after paying all of these bills?

Rent: \$475.00

Cell Phone: \$87.54

Groceries: \$227.87

Number Model: _____

Solution: _____

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4. Peter selected items totaling \$76.75 from the grocery store. He gave the cashier \$80.00. She incorrectly gave him \$2.25 in change. How much change should Peter have received?

Solution: _____

5. Use estimation to place the decimal in each answer.
Explain or record a number sentence to show how you made your estimate.

a. $4.78 \times 11.50 = 5497$

b. $36.25 \times 101.54 = 3680825$

c. $5,761.2 \div 0.56 = 1028785$

6. Carey buys a bag of cherries for her classroom holiday party. Cherries cost \$4.99 per pound. The bag of cherries that she decides to buy weighs 2.5 pounds. How much will Carey pay of the bag of cherries for her holiday party? Show your work.

Solution: _____

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7. Ralph paid \$34.84 to fill his car's gas tank with gas. If the gas tank was empty and the cost of gasoline was \$2.14 per gallon, about how many gallons does the gas tank hold?

Number Model: _____

Solution: _____

8. a. 10% of 60 is what number? _____
b. 25% of 80 is what number? _____
c. Explain how you found 25% of 80.

9. a. 20 is 40% of what number? _____
b. 48 is 60% of what number? _____
c. Explain how you found the number for Problem 9b.

10. Ralph saved \$75.00. He spent 36% of that downloading new applications for his new tablet. How much did spend on the new applications?

11. A salad dressing is 10% vinegar. Dexter wants to make 15 cups of salad dressing. How much vinegar does he need?

Solution: _____

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12. The bar graph shows the United States population over the recent years.



a. Describe what you know from the graph about the United States population over the years.

13. Minutes To Eat Breakfast

A survey of "How long does it take you to eat breakfast?" has these results:

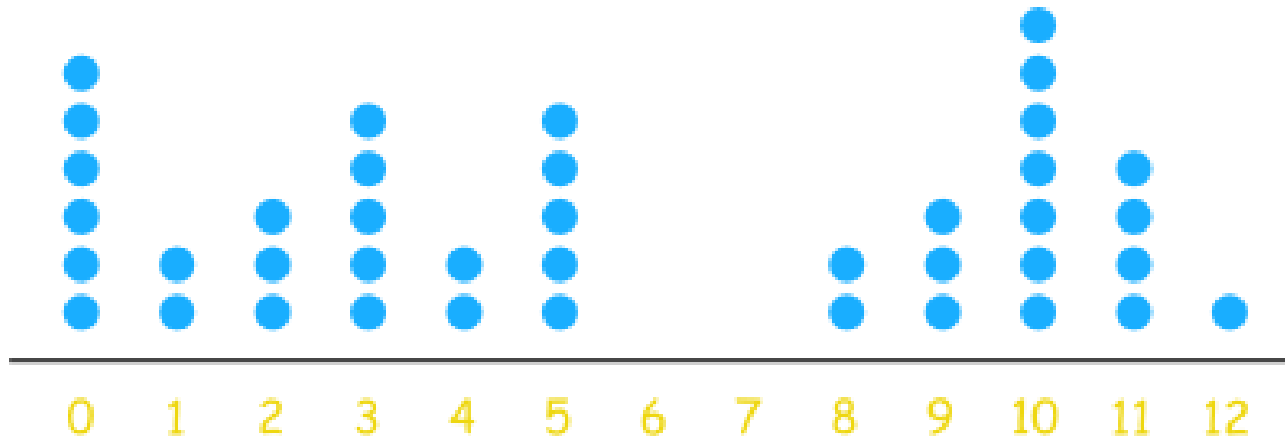
Minutes: 0 1 2 3 4 5 6 7 8 9 10 11 12

People: 6 2 3 5 2 5 0 0 2 3 7 4 1

Which means that 6 people take 0 minutes to eat breakfast (they probably had no breakfast), 2 people say they only spend 1 minute having breakfast, etc.

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And here is the dot plot:



Find the following data landmarks to describe the center and spread of the data.

a) Minimum: _____

e) Q1: _____

b) Maximum: _____

f) Q3: _____

c) Range: _____

g) Interquartile Range: _____

d) Median: _____

h) Mode: _____

14. Create a box plot in the space below to display the data given in Problem 13.

