

1. For numbers 1a–1d, choose Yes or No to tell whether the sum is even.

1a. $8 + 3$

 Yes No

1b. $6 + 6$

 Yes No

1c. $4 + 5$

 Yes No

1d. $2 + 6$

 Yes No

2. Select the number sentences that show the Commutative Property of Addition. Mark all that apply.

(A) $9 + 7 = 16 + 0$

(B) $9 + 7 = 7 + 9$

(C) $(4 + 5) + 7 = (5 + 4) + 7$

(D) $7 + (4 + 5) = (7 + 4) + 5$

3. Select the numbers that round to 500 when rounded to the nearest hundred. Mark all that apply.

(A) 438

(B) 542

(C) 450

(D) 483

(E) 567

4. There are 165 cars in the parking lot. Complete the chart to show 165 rounded to the nearest 10.

Hundreds	Tens	Ones

GO ON 

5. Write each number sentence in the box below the better estimate of the sum.

$281 + 125 = \blacksquare$

$242 + 128 = \blacksquare$

$236 + 119 = \blacksquare$

$309 + 135 = \blacksquare$

300	400

6. Abby and Cruz are playing a game. Abby's score is 586 points. Cruz's score is 754. Abby estimates she needs about 200 points more to reach Cruz's score. How did she estimate? Explain.

7. The table shows how many shells each person collected.

Shells Collected	
Name	Number of Shells
Amber	382
Melba	455
Pablo	421

For numbers 7a–7d select True or False for each statement.

7a. Melba collected about 40 more shells than Pablo. True False

7b. Melba and Pablo collected more than 800 shells. True False

7c. Amber collected about 60 fewer shells than Pablo. True False

7d. Amber, Melba, and Pablo collected over 1,100 shells. True False

GO ON 

8. Mikio drove 58 miles on Saturday. On Sunday he drove 23 miles. How many miles did he drive on Saturday and Sunday? Explain how you solved the problem.

9. Choose the property that makes the statement true.

Identity
Commutative
Associative

The Property of Addition describes the

number sentence $17 + 1 = 1 + 17$.

Use the table for 10–12.

10. The table shows the number of students visiting the zoo each day.

How many students visited the zoo on Wednesday and Thursday?

_____ students

11. How many more students visited the zoo on Wednesday than on Monday?

_____ students

12. How many more students visited the zoo on Monday and Tuesday than on Wednesday?

_____ students

Field Trips This Week

Day	Number of Students
Monday	246
Tuesday	418
Wednesday	349
Thursday	508

13. Help Ben find the sum.

$$\begin{array}{r} 246 \\ 321 \\ + 128 \\ \hline \end{array}$$

For numbers 13a–13d choose Yes or No to tell Ben when to regroup.

13a. Regroup the ones. Yes No
13b. Add the regrouped ten. Yes No
13c. Regroup the tens. Yes No
13d. Add the regrouped hundred. Yes No

14. Avery sent 58 email invitations to a party. So far, 37 people replied. How many people still need to reply? Draw jumps and label the number line to show your thinking.



15. There are 842 seats in the school auditorium. 138 seats need repairs. How many seats do not need repairs? Show your work.

_____ seats

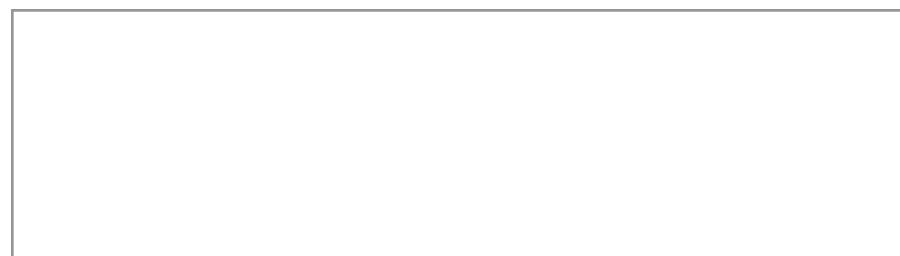
16. Madison solves this problem. She says the difference is 419. Explain the mistake Madison made. What is the correct difference?

$$\begin{array}{r} 645 \\ - 236 \\ \hline \end{array}$$

GO ON 

17. Radburn School recycles aluminum cans to raise money.

The third graders have collected 329 cans so far. Their goal is to collect more than 500 cans. What is the least number of cans they need to collect to reach their goal? Complete the bar model and explain how to use it to find the unknown part.



18. The Science Center displays 236 butterflies. The number of beetles on display is 89 less than the number of butterflies.

Part A

About how many beetles are on display at the Science Center? Explain.



Part B

How many butterflies and beetles are on display at the Science Center? Show your work.



GO ON 

19. Elena used $74 + 37 = 111$ to check her subtraction. Which math problem could she be checking? Mark all that apply.

(A) $74 - 37 = \square$ (C) $111 + 37 = \square$
(B) $111 - 74 = \square$ (D) $111 - 37 = \square$

20. Shawn and Steve are rock hunters. The tables show the kinds of rocks they collected.

Shawn's Collection

Rock	Number of Samples
Quartz	127
Agate	65
Opal	96

Steve's Collection

Rock	Number of Samples
Opal	79
Quartz	109
Onyx	93

Part A

Who collected more rock samples? How many did he collect? About how many more did he collect? Explain how you solved the problem.

Part B

Shawn and Steve have the greatest number of what kind of rock? How many rocks of that kind do they have? Show your work.

