

Mark the best answer.

1. If Serena rounds her number of baseball cards to the nearest ten, she would have 280. How many cards could she have in her collection? (2-5)

**A** 269  
**B** 272  
**C** 284  
**D** 287

2. There are 16 students in a scout troop. Seven of the students go on a nature hike. Which number sentence shows a way to find out how many students did not go on the hike? (2-2)

**A**  $7 - \blacksquare = 16$   
**B**  $7 + 16 = \blacksquare$   
**C**  $16 - 7 = \blacksquare$   
**D**  $16 - \blacksquare = 7$

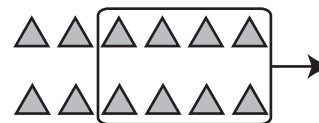
3. A store stocks 411 boxes of cold cereal and 162 boxes of hot cereal. Which number sentence shows the best way to estimate the total boxes of cereal using compatible numbers? (2-6)

**A**  $400 + 100 = 500$   
**B**  $400 + 150 = 550$   
**C**  $450 + 150 = 600$   
**D**  $450 + 200 = 650$

4. A theater has 325 seats. There are 187 people who buy tickets for a show. Which is the best estimate of how many seats are empty? (2-7)

**A** 120  
**B** 140  
**C** 160  
**D** 180

5. Which number sentence is shown? (2-2)

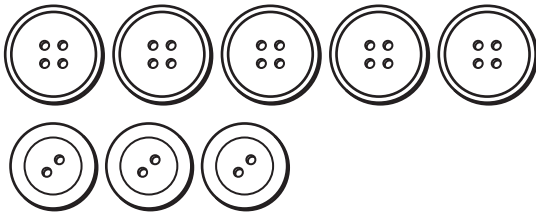


**A**  $12 + 7 = 19$   
**B**  $19 - 7 = 12$   
**C**  $12 + 4 = 8$   
**D**  $12 - 8 = 4$

6. A bakery had 75 cupcakes Wednesday morning. By Wednesday afternoon they had sold 37 cupcakes. How many cupcakes had not been sold? Use mental math to solve. (2-4)

- A 28
- B 38
- C 48
- D 112

7. Which number sentence can be used to find how many buttons in all? (2-1)



- A  $5 + 3 = 8$
- B  $6 + 3 = 9$
- C  $6 + 4 = 10$
- D  $6 + 5 = 11$

8. Carla walks up 283 steps to get to the top of the lookout tower. What is 283 rounded to the nearest hundred? (2-5)

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9. Zach watched birds at his bird feeder. He counted 18 birds in the morning and 29 birds in the afternoon. To add  $18 + 29$ , Zach used mental math to break apart the addends. What is the missing number in his number sentence? (2-3)

$$18 + 29 = (10 + 8) + (20 + \blacksquare) = 47$$

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10. Find the value for  $n$  that will make the following equation true. (2-8)

$$30 = 25 + n$$

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11. Carole read 28 pages of a book on Monday and 103 pages on Tuesday. Is 75 pages a reasonable answer for how many more pages Carole read on Tuesday than on Monday? Explain your answer. (2-9)

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12. Find the value for  $n$  that will make the following equation true. (2-8)

$$13 - n = 6$$

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**13.** To subtract  $53 - 29$  mentally, Bert subtracted  $53 - 30 = 23$  first. What should Bert do next to find the difference? (2-4)

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**14.** A train going into Houston has 218 passengers. A train going out of Houston has 129 passengers. Give an estimate for the total number of passengers on the two trains. (2-6)

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**15.** The school store had 451 pencils on the first day of school. On the last day of school, there were 147 pencils left. About how many pencils did the school store sell in all? (2-7)

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**16.** A farm stand has 22 kinds of vegetables and 11 kinds of fruits. Estimate how many more kinds of vegetables than fruits are at the farm stand. (2-7)

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**17.** Emma spent 17 minutes on making a salad and 45 minutes on making apple pie. Use mental math to find how much more time she spent on making the pie than on making the salad. (2-4)

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**18.** Round to the nearest hundred to estimate the difference  $597 - 329$ . (2-7)

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**19.** Show an example of the Commutative (Order) Property of Addition. Use the numbers 2 and 7. (2-1)

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**20.** Stephen read for 34 minutes on Monday and 45 minutes on Tuesday. Use breaking apart to find how many minutes Stephen read all together. (2-3)

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