

Choose the correct answer.

1. A printing company used 1,896,432 sheets of tag board last year. What is the value of the digit 8 in 1,896,432?

A 800
B 8,000
C 80,000
D 800,000

2. William won 50 tickets at the arcade. He redeemed 30 tickets for a prize and gave 5 tickets to Katelyn. Which expression can William use to find how many tickets he has left?

A $50 - (30 + 5)$
B $50 + (30 - 5)$
C $(50 + 30) + 5$
D $50 - (30 - 5)$

3. Shari sent a total of 64 text messages to 4 friends. Each friend received the same number of text messages. Which number sentence could Shari use to find the number of text messages she sent to each friend?

A $4 \times 64 = 256$
B $60 \times 4 = 240$
C $5 \times 64 = 320$
D $4 \times 16 = 64$

4. Mavis drives 634 miles to visit her grandmother in Philadelphia. How many miles does Mavis drive if she visits her grandmother 4 times?

A 2,426 miles
B 2,436 miles
C 2,536 miles
D 2,836 miles

5. So far, the fifth-grade students at Silver Run Elementary School have raised \$200 toward their class trip. They need to raise 8 times as much to pay for the whole trip. How much money do the fifth-grade students need to raise in all?
- A** \$16
B \$1,600
C \$16,000
D \$160,000
6. A company manufactures 354 toy cars each day. How many toy cars do they manufacture in 24 days?
- A** 2,124
B 7,286
C 8,296
D 8,496
7. Nicole baked 9 trays of cookies. Each tray had 5 rows with 4 cookies in each row. Nicole wrote the equation $(9 \times 5) \times 4 = 9 \times (5 \times 4)$. What property did Nicole use?
- A** Commutative Property of Multiplication
B Associative Property of Addition
C Associative Property of Multiplication
D Distributive Property
8. Laura has 24 stamps from each of 6 different countries. She can fit 4 stamps on each display sheet of an album. How many display sheets can Laura fill with stamps?
- A** 16
B 34
C 36
D 576

A black arrow pointing to the right with the words "GO ON" written inside in white capital letters.

9. Patel hopes to be one of the first fans to get into the stadium for the baseball game because the first 30,000 fans will receive a baseball cap. How can you show the number 30,000 as a whole number multiplied by a power of ten?
- A 3×10^1
B 3×10^2
C 3×10^3
D 3×10^4
10. A shoe store is having a big sale on 2,000 pairs of boots. Every pair of boots will sell for \$40. If the store sells all the boots, which of the following could be used to find the total amount the store will make from the sale?
- A $(4 \times 2) \times 10^2 = 800$
B $(4 \times 2) \times 10^3 = 8,000$
C $(4 \times 2) \times 10^4 = 80,000$
D $(4 \times 2) \times 10^5 = 800,000$
11. Of the 90 trading cards Yoshi has, 55 are baseball cards and 35 are football cards. He gives Henry 10 football cards and Henry gives Yoshi 8 baseball cards. Which expression can be used to find the number of trading cards Yoshi has now?
- A $(55 + 8) + (35 - 10)$
B $(55 + 8) - (35 + 10)$
C $(55 - 8) - (35 + 10)$
D $(55 - 8) + (35 - 10)$
12. Amanda is making a necklace with beads. She has 8 beads and buys 2 packages with 25 beads in each package. She needs 45 beads for the necklace. She uses the expression $8 + 25 \times 2 - 45$ to find how many beads she has left. How many beads does Amanda have left?
- A 3
B 13
C 21
D 103

GO ON

Write the correct answer.

13. Trisha is writing a report about Guam for Social Studies. She looked up the population of Guam and found it to be about 18×10^4 . What is the population of Guam, written as a whole number?

180,000

14. Flora does 136 jumping jacks each day as a warm-up activity. How many jumping jacks does she do in 3 days?

408 jumping jacks

15. Jared has 96 books to arrange on 6 shelves of a bookcase. He wants each shelf to have the same number of books. Using the Distributive Property, write an expression Jared can use to find how many books he can put on each shelf. Then find the number of books that he can put on each shelf.

Possible answer:

$(6 \times 10) + (6 \times 6) =$

96; 16

16. Ming's DVD collection includes 16 adventure movies, 7 comedies, 12 westerns, and 8 mysteries. He wants to keep 8 of the DVDs and give the rest away. If Ming gives the rest of the DVDs to each of 5 friends, how many DVDs will each friend receive?

7 DVDs



Name _____

17. Cheryl and Richard decided to spend the winter in Florida. They are renting an apartment for \$1,275 per month. How much will it cost them to rent the apartment for 5 months?

_____ \$6,375 _____

18. Raul earns \$24 per hour painting houses. If he works for 263 hours, how much will Raul earn in all?

_____ \$6,312 _____

19. A company manufactured 48,782,756 toothpicks last month. What is 48,782,756 written in word form?

_____ forty-eight million, _____

_____ seven hundred _____

_____ eighty-two _____

_____ thousand, seven _____

_____ hundred fifty-six _____

20. Ramon has a large collection of marbles. He has 150 clear marbles, 214 blue marbles, and 89 green marbles. Ramon wrote this equation about his marble collection:

$$150 + 214 + 89 = 214 + 89 + 150$$

What property did Ramon use?

_____ Commutative _____

_____ Property of Addition _____

GO ON 

21. Jonah is a baker. Each morning, he makes 60 cupcakes. He gives away 5 and sells the rest. Each morning, he also makes 48 brownies. He gives away 4 and sells the rest. Write an expression that can be used to find how many cupcakes and brownies Jonah sells in 7 days.

Possible expression:

$$7 \times [(60 - 5) + (48 - 4)]$$

22. There are 14 students from each of 12 classes signed up for after-school sports. The students will be divided into 7 equal groups. How many students will be in each group?

24 students

23. Rupal poured muffin batter into 3 muffin tins. Each muffin tin holds 8 muffins. She kept 6 muffins and took the rest to school for the bake sale. Write an expression that could be used to find the total number of muffins Rupal took to school for the bake sale.

$$(3 \times 8) - 6$$

24. Arlene bought three 6-packs of juice, two 8-packs of water, and 1 can of iced tea. She used the expression $3 \times 6 + 2 \times 8 + 1$ to find the number of drinks she bought altogether. How many drinks did Arlene buy altogether?

35 drinks

25. Simon is doing a report on the major rivers in North America. He reads that the Yukon River in British Columbia is about 4 times as long as the Osage River in Kansas. If the Osage River is 5×10^2 miles long, about how long is the Yukon River?

2,000 miles

GO ON 

Name _____

Constructed Response

26. Allison and Justin's father donated \$3 for every lap they swam in a swim-a-thon. Allison swam 21 laps and Justin swam 15 laps. Use the Distributive Property to find the amount of money their father donated.

Possible answer: the Distributive Property says that

$$3 \times (21 + 15) = (3 \times 21) + (3 \times 15) = 63 + 45 = 108.$$

He donated \$108.

Extended Constructed Response

27. Danielle works as a cashier in a bookstore. She works 35 hours a week and earns \$11 an hour. Each week Danielle spends \$300 and saves the rest.

- A Danielle estimated that she earns about \$20,000 per year. Is this estimate accurate? Explain.

Possible answer: yes; Danielle earns $35 \times \$11$, or \$385. There are 52 weeks in a year, and $52 \times \$385 = \$20,020$, so \$20,000 is a reasonable estimate.

- B Danielle is saving to buy a flat-screen television that costs \$510. She wants to know how long it will take to save the money and writes the expression $510 \div [300 - (35 \times 11)]$. Will Danielle's expression help her find how long it will take to save the money she needs? Explain your answer.

No; Possible explanation: Danielle subtracted how much she earns each week from how much she spends each week instead of subtracting how much she spends from how much she earns. An expression for how many weeks it will take to save \$510 is $510 \div [(35 \times 11) - 300]$. It will take Danielle 6 weeks to save the money.

