**Choose the correct answer.**

1. A hardware store has 6 boxes of nails. Each box contains 496 nails. Which expression shows a strategy for finding the product of 6 x 496?

A. 6 x (500 - 4)

B. 6 x (400 x 3)

C. 6 x (400 – 2)

D. 6 x (400 – 96)

1. Which equation is **true**?

A. 3 x 482 = 1,267

B. 6 x 213 = 12,780

C. 5 x 3,249 = 22,743

D. 9 x 3,440 = 30,960

1. Sally picked 5 times as many roses as sunflowers for a flower bouquet. She picked a total of 30 flowers. How many **more** roses than sunflowers did she pick?
   1. 20
   2. 25
   3. 30
   4. 35
2. Jerrie manages a catering company. He rented 410 chairs each week for the first three weeks of June. Jerrie rented 800 chairs each week for the first three weeks of May. The chair rental company forgot to send 230 chairs. How many chairs did Jerrie receive in those 6 weeks?

A. 1,210

B. 3,400

C. 3,630

D. 1,440

1. Ashlynn has 21 buttons. This is 3 times as many buttons as Bob has. Ashlynn made a model to compare the numbers of buttons they have.

21

*n*

*n*

*n*

*n*

Which equation represents how to find the value of *n*?

A. 21 = *n* + 3

B. 21 = 3 x *n*

C. 21 + 3 = *n*

D. 21 x 3 = *n*

**GO ON**

1. Mrs. Dixon travels 134 miles each week for work. How far does she travel in 6 weeks for work?
   1. 544 miles
   2. 840 miles
   3. 422 miles
   4. 804 miles
2. Sarah is collecting pebbles. Each month in January, February, and March, she put 400 pebbles in a container. She put 200 pebbles in the jug in April and 200 in May. How many pebbles did Sarah put in the jug between January and May?

A. 800

B. 1,200

C. 1,600

D. 1,800

1. Christopher has 325 songs stored on his portable music player. He wants to triple his music library. He makes a model to help him find how many songs he will have in his music library.

300 20 5

**3**

|  |  |  |
| --- | --- | --- |
|  |  |  |

How many songs will Christopher have?

A. 654

B. 975

C. 675

D. 375

1. Corey has a baseball card collection. In one book he has 5 pages with 12 cards on each page. In another book he has 6 pages with 15 cards on each page. He gives 18 cards to a friend. Which of these equations can Corey use to find how many cards he has left?

A. 5 x 12 x 6 x 15 – 18 = *n*

B. 5 x 12 + 6 x 15 – 18 = *n*

C. 5 + 12 x 6 + 15 – 18 = *n*

D. 5 + 12 x 6 x 15 + 18 = *n*

**GO ON**

1. Multiply 4 x 48. Which statement is true?
   1. The product is 168.
   2. A reasonable estimate of the product is 200.
   3. Using partial products, the products are 160 and 8.
   4. Using regrouping, 32 ones are regrouped as 2 tens and 3 ones.
2. A factory produces 1,532 hats every hour. Which expression can be used to find how many hats the factory produces in 4 hours?

A. (4 x 1,000) + 532

B. (4 x 1,000) + (4 x 500)

+ (4 x 30) + (4 x 2)

C. (4 x 1,000) + (4 x 500) + 32

D. (4 x 1,000) + (500 + 30 + 2)

1. It costs 4,523 points to build each village in the online game *Village Eruption*. How much does it cost to build 7 villages?
   1. 25,413 points
   2. 28,732 points
   3. 30,616 points
   4. 31,661 points
2. David travels 326 miles every week. He says he will travel 1,630 miles if he travels the same number of miles for the next 5 weeks.

Which statement **best** describes the **reasonableness** of David’s answer?

* 1. The answer is reasonable because it is close to the estimate of

5 x 2,000.

* 1. The answer is reasonable because it is between the estimates of 1,500 and 2,000.
  2. The answer is reasonable because it is close to the estimate of 3,000.
  3. The answer is reasonable because it is close to the estimate of

5 x 400.

**GO ON**

1. Ben made this model to find the product of a 3-digit number and a 1-digit number.

# 200 70 3

|  |  |  |
| --- | --- | --- |
|  |  |  |

4

Which multiplication sentence represents Ben model?

A. 4 x 237 = 948

B. 4 x 270 = 1,080

C. 4 x 173 = 692

D. 4 x 273 = 1,092

1. Jeremey has 4 albums with 12 stamps in each. His friend gives him 4 packages of stamps with 15 cards in each. If Jeremey buys another 10 stamps, how many stamps will he have?
   1. 48 B. 108 C. 98 D. 118
2. Brady has 3,032 miles on his car. Lauren has 5 times as many miles on her car as Brady does. How many miles does Lauren have on her car?

A. 15,520

B. 15,160

C. 15,610

D. 9,096

1. Jennifer has 30 baseball cards in 5 packs. She writes that 30 is 6 times as many as 5. Which other comparison sentence can she write in her record book to show the comparison?
   1. 6 more than 5 is 30.
   2. 30 is 4 times as many as 5.
   3. 5 is 6 times as many as 30.
   4. 30 is 5 times as many as 6.

**GO ON**

1. A large boat that can carry up to 248 boxes in a single trip will make 4 trips in one day. Which expression shows how to multiply 4 x 248 by using place value and expanded form?

A. (4 x 100) + (4 x 40) + (4 x 8)

B. (4 x 800) + (4 x 40) + (4 x 2)

C. (4 x 200) + (4 x 48)

D. (4 x 200) + (4 x 40) + (4 x 8)

1. A baby African elephant has a mass of about 534 kilograms. Which is the best estimate of the mass of 3 baby African elephants?
   1. less than 1,500 kilograms
   2. between 1,500 and 1,800 kilograms
   3. between 1,800 and 2,400 kilograms
   4. more than 2,400 kilograms
2. Carly plans to use a strategy to find 24 x 150. Which expression shows a strategy she could use?

A. 2 x 4 + 150

B. 4 x 6 + 15

C. 6 x 4 x 150

D. 24 x 0 + 150

1. Janet’s mom bought tickets to the Pittsburgh Zoo. She bought 4 tickets. Each ticket cost $19. What was the total cost of the tickets?

A. $153

B. $76 C. $187 D. $140

**GO ON**

1. Lauren wrote this pattern in her math notebook.

4 x 5 = 20

4 x 50 = 200

4 x 500 = 2,000

4 x = 20,000

What is the unknown number in Lauren’s pattern?

A 5

B 500

C 5,000

D 50,000

1. A hardware store has 3 times as many snow shovels as garden shovels. The total number of shovels is 32. How many snow shovels does the hardware store have?

A 8

1. 16
2. 24
3. 32
4. Gabriella bought party favors at the store for the school's 4th grade winter party. Gabriella bought 5 bags of party hats with 10 hats in each bag. She also bought 3 bags of horns with 8 horns in each bag. How many more horns than party hats did Gabriella buy?
5. 42
6. 16
7. 26
8. 24
9. There is a pie sale at school. The price for each pie is $4. Which expression can be used to show how much money the school will make if it sells 653 pies?

A (4 x 60) + (4 x 5) + (4 x 3)

B (4 x 600) + (4 x 30) + (4 x 5)

C (4 x 600) + (4 x 50) + (4 x 3)

D (4 x 300) + (4 x 50) + (4 x 6)

**GO ON**

1. Jake and Morgan played a card game.

3 pts.

Here are some facts about the game:

* Together, they scored 12 points in one game.
* Jake scored 3 times as many points as Morgan.

**A.** Decide on a variable to use and write an equation to solve.

How many points did Jake and Morgan each score? Show your work.

3 pts.

Jake and Morgan played the card game again. Here are some facts about their second game:

* Together, they scored 42 points in the game.
* Morgan scored 6 times as many points as Jake this time.

**B.** Decide on a variable to use and write an equation to solve.

How many points did Morgan and Jake each score? Show your work.

**GO ON**

1. pts.

You might have used the variable *"n"* in your equations.

**C.** Can you calculate Jake’s total for the two games by adding the number of *n* that he had in the first game plus his number of *"n"* in the second game? Why or why not?

1. pts.

**D.** Who got the most points overall? How many points in total did Jake get in the two games? How many points in total did Morgan get in the two games?

STOP