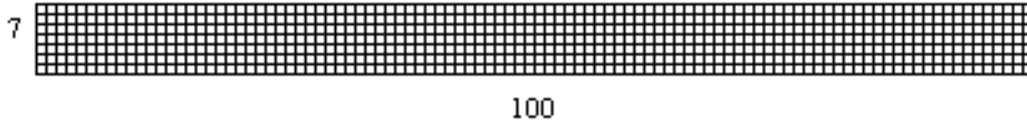
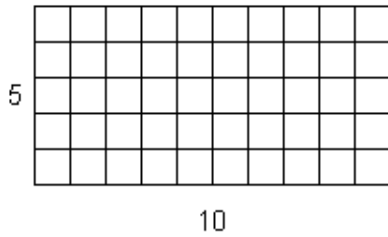


1 Which equation shows the number of squares in the array?



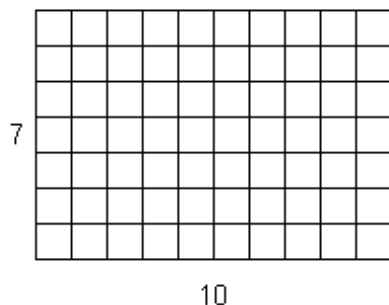
- A  $7 \times 10 = 70$
- B  $7 + 10 = 17$
- C  $7 + 100 = 107$
- D  $7 \times 100 = 700$

2 Which equation shows the number of squares in the array?



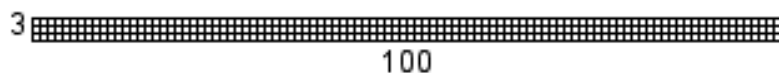
- A  $5 \times 10 = 50$
- B  $5 + 10 = 15$
- C  $5 + 100 = 105$
- D  $5 \times 100 = 500$

3 Which equation shows the number of squares in the array?



- A  $7 \times 100 = 700$
- B  $7 + 10 = 17$
- C  $7 + 100 = 107$
- D  $7 \times 10 = 70$

4 Which equation shows the number of squares in the array?



- A  $3 \times 100 = 300$
- B  $3 + 10 = 13$
- C  $3 + 100 = 103$
- D  $3 \times 10 = 30$

5 Complete this statement. To find  $2 \times 600$ , multiply 2 and 6.  
Then write \_\_\_\_\_ zeros at the end.

- A 2
- B 3
- C 10
- D 12

6 Find the product of 40 and 6.

- A 2,400
- B 240
- C 24
- D 42

- 7 A ream of paper has 500 sheets. How many sheets are in 5 reams of paper?
- A 1,000
  - B 2,500
  - C 5,000
  - D 5,500
- 8 What partial products will help you find the product  $2 \times 46$ ?
- A  $2 \times 40$  and  $2 \times 6$
  - B  $2 \times 4$  and  $2 \times 6$
  - C  $2 \times 4$  and  $2 \times 60$
  - D  $2 \times 40$  and  $2 \times 60$
- 9 Which expression shows breaking apart to find  $4 \times 36$ ?
- A  $(4 \times 300) + (4 \times 6)$
  - B  $(4 \times 40) + (4 \times 4)$
  - C  $(4 \times 4) + (4 \times 5)$
  - D  $(4 \times 30) + (4 \times 6)$
- 10 Which addition sentence shows how to use partial products to find  $8 \times 51$ ?
- A  $1,300 + 8 = 1,308$
  - B  $500 + 9 = 509$
  - C  $400 + 80 = 480$
  - D  $400 + 8 = 408$
- 11 A class of 10 students is making a card for their teacher who is sick. Each student is given 6 minutes to add to the card. How much time is needed for the card to be completed?
- A 180 minutes
  - B 70 minutes
  - C 60 minutes
  - D 16 minutes

12 To find the product of  $7 \times 62$  using compensation, Kerry first multiplied  $7 \times 60 = 420$ . What should Kerry do next?

- A  $420 + 7 = 427$
- B  $420 - 7 = 413$
- C  $420 + 14 = 434$
- D  $420 - 14 = 406$

13 For a club fundraiser Dagny is selling boxes of candles. Dagny sold 80 boxes of candles. There are 9 candles in each box. How many candles did she sell?

- A 89 candles
- B 640 candles
- C 720 candles
- D 800 candles

14 At Camp Rustic Branch each camper gets 9 minutes to write an e-mail on the camp computer. There are 11 campers who want to write an e-mail on the first day of camp. How much time is needed for all the campers to write an e-mail?

- A 20 minutes
- B 99 minutes
- C 109 minutes
- D 297 minutes

15 Use mental math to find the product.

$$9 \times 62$$

- A 578
- B 560
- C 558
- D 548

16 To multiply  $3 \times 408$ , Tim first multiplied  $3 \times 400$  and got 1,200. What number should he add to 1,200 to get the exact answer?

- A 3
- B 24
- C 12
- D 8

17 Use mental math to find the product.

$$9 \times 12$$

- A 128
- B 110
- C 108
- D 98

18 Use mental math to find the product.

$$9 \times 52$$

- A 488
- B 470
- C 468
- D 458

19 To multiply  $2 \times 406$ , Tim first multiplied  $2 \times 400$  and got 800. What number should he add to 800 to get the exact answer?

- A 3
- B 24
- C 12
- D 8

20 A school purchased 6 boxes of chalk. Each box contained 189 pieces of chalk. Which number sentence shows the best way to use rounding to estimate the total number of pieces of chalk?

- A  $6 + 100 = 106$
- B  $6 + 200 = 206$
- C  $6 \times 100 = 600$
- D  $6 \times 200 = 1,200$

21 There are 24 hours in a day. Kendra's new puppy is 12 days old. Which is the best estimate of the number of hours Kendra's puppy has been alive?

- A 200
- B 400
- C 600
- D 800

22 Which of these is the closest estimate for  $7 \times 59$ ?

- A  $7 \times 11 = 77$
- B  $7 \times 60 = 420$
- C  $7 \times 50 = 350$
- D  $7 \times 70 = 490$

23 Which will cost more than \$500?

- A 6 lamps for \$92 each
- B 8 lamps for \$44 each
- C 5 lamps for \$76 each
- D 9 lamps for \$51 each

24 Which will cost \$4,900?

- A 6 rugs for \$900 each
- B 8 rugs for \$600 each
- C 7 rugs for \$700 each
- D 9 rugs for \$400 each

- 25 Tara teaches 4 classes, each with 29 students. What is a reasonable estimate of the total number of students in Tara's 4 classes?
- A 300
  - B 120
  - C 30
  - D 12
- 26 A box of pens holds 144 pens. There are 6 full boxes of pens in the school supply room. Which number sentence shows the best way to use compatible numbers to estimate the total number of pens in the school supply room?
- A  $6 \times 150 = 900$
  - B  $6 \times 100 = 600$
  - C  $6 \times 200 = 1,200$
  - D  $120 \div 6 = 20$
- 27 Mary can put 47 books on a shelf. What is the best estimate of the number of books she can put on 9 shelves?
- A 450 books
  - B 500 books
  - C 550 books
  - D 250 books
- 28 Which will cost more than \$400?
- A 6 games for \$45 each
  - B 8 games for \$51 each
  - C 7 games for \$52 each
  - D 9 games for \$40 each
- 29 A factory can produce about 67 computers in 1 day. What is a reasonable estimate of the number of computers the factory can produce in 5 days?
- A 300 because  $5 \times 67$  is about  $5 \times 60 = 300$
  - B 350 because  $5 \times 67$  is about  $5 \times 70 = 350$
  - C 250 because  $5 \times 67$  is about  $5 \times 50 = 250$
  - D 420 because  $5 \times 67$  is about  $6 \times 70 = 420$

- 30 A DVD cabinet has 7 shelves. Each shelf can hold about 38 DVDs. What is a reasonable estimate of the number of DVDs the cabinet can hold?
- A 210 because  $7 \times 38$  is about  $7 \times 30 = 210$
  - B 280 because  $7 \times 38$  is about  $7 \times 40 = 280$
  - C 320 because  $7 \times 38$  is about  $8 \times 40 = 320$
  - D 350 because  $7 \times 38$  is about  $7 \times 50 = 350$