

Name \_\_\_\_\_

# Math Homework

Unit 2 Test

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# KEY

## ANSWER KEY

## DUE Thursday April 14th

Fill in the bubble for the correct answer.

1. Olivia has 801 plastic blocks. She wants to sort them into 9 piles of equal size. About how many blocks will she have in each pile?

(A) 60

(B) 90

(C) 110

(D) 75

$801 \sim 800$   
 $9 \sim 10$   
*Round*

$$\begin{array}{r} 90 \\ \times 9 \\ \hline 810 \end{array}$$

$$\begin{array}{r} 80 \\ 9 \overline{) 800} \\ \underline{72} \\ 80 \end{array}$$

2. A farmer plants 13 rows of corn with 13 plants in each row. How many corn plants does he have in all?

(A) 169

(B) 144

(C) 225

(D) 26

$$\begin{array}{r} 13 \\ \times 13 \\ \hline 39 \\ 130 \\ \hline 169 \end{array}$$

3. There are 1,875 pages in a dictionary. Which is the best estimate for the number of pages in 6 of these dictionaries?

(A) 12,000

(B) 6,000

(C) 20,000

(D) 9,000

$$\begin{array}{r} 543 \\ 1,875 \\ \times 6 \\ \hline 11,250 \sim 12,000 \end{array}$$
  
$$\begin{array}{r} 1,875 \sim 2,000 \\ \times 6 \\ \hline 12,000 \end{array}$$

*means! round!*

4. Zubin is having a party. He plans to give party favors to each of his 9 guests. Each guest will get an equal share of balloons and an equal share of marbles. If there are 81 balloons and 45 marbles in all, how many favors will each guest receive?

(A) 15

(B) 12

(C) 14

(D) 9

$81 \div 9 = 9$  balloons  
 $45 \div 9 = 5$  marble  
14 total

$$\begin{array}{r} 81 \\ + 45 \\ \hline 126 \end{array}$$

OR 
$$\begin{array}{r} 14 \\ 9 \overline{) 126} \end{array}$$

5. Which expression can be used to find the product  $31 \times 19 = 589$ ?

(A)  $(3 \times 1) + (3 \times 9) + (1 \times 1) + (1 \times 9) = 40$

(B)  $(30 \times 10) + (30 \times 9) + (1 \times 10) + (1 \times 9) = 589$

(C)  $(30 + 10) + (30 + 9) + (1 + 10) + (1 + 9) = 99$

(D)  $(30 \times 10) + (30 \times 9) + (10 \times 10) + (10 \times 9) = 760$

$$\begin{array}{r} 31 \\ \times 19 \\ \hline 279 \\ + 310 \\ \hline 589 \end{array}$$

GO ON 



6. Dee rides her bike 3.84 kilometers before lunch and 7.69 kilometers after lunch. How far does she ride in all?

- (A) 10 kilometers
- (B) 10.43 kilometers
- (C) 11.53 kilometers
- (D) 11.15 kilometers

$$\begin{array}{r} 3.84 \\ + 7.69 \\ \hline 11.53 \end{array}$$

7. There are 40 rows of seats in a theater. There are 22 seats in each row. How many seats are there in all?

- (A) 84
- (B) 840
- (C) 822
- (D) 880

$$\begin{array}{r} 22 \\ \times 40 \\ \hline 00 \\ 880 \\ \hline 880 \end{array} \quad \begin{array}{r} 22 \\ \times 40 \\ \hline 880 \end{array}$$

8. The students at Mona's school make 4,389 paper flowers to decorate 7 floats in the town parade. Each float will have the same number of flowers. How many flowers will be used on each float?

- (A) 627
- (B) 613
- (C) 644
- (D) 600

$$\begin{array}{r} 627 \\ 7 \overline{) 4,389} \\ \underline{-42} \phantom{0} \\ 18 \phantom{0} \\ \underline{-14} \\ 49 \phantom{0} \\ \underline{-49} \\ 0 \end{array}$$

9. Soni draws 7 flower plants. Each plant has 2 flowers and each flower has 4 petals. How many petals does she draw in all?

- (A) 84
- (B) 28
- (C) 112
- (D) 336

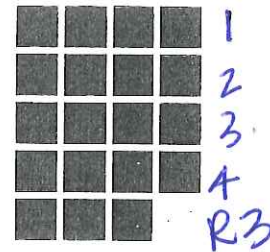
one plant = 2 flowers  
12 flowers  
1 flower = 4 petals

$$12 \times 4 = 48 \text{ petals}$$

$$\begin{array}{r} 5 \\ 48 \\ \times 7 \\ \hline 336 \end{array}$$

336 petals in all

10. Use the array to divide  $19 \div 4$ .



What is the quotient and the remainder?

- (A) 3 r4
- (B) 5 r4
- (C) 4 r3
- (D) 5 r1

$$\begin{array}{r} 4 \overline{) 19} \\ \underline{-16} \\ 3 \end{array}$$

4 R3

$$\begin{array}{r} 14 \\ \times 627 \\ \times 7 \\ \hline 4,389 \end{array}$$

$$\begin{array}{r} 1 \\ 45 \\ \times 2 \\ \hline 9000 \end{array}$$

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$$\begin{array}{r} 200 \\ \times 45 \\ \hline 9000 \end{array}$$

11. Lee uses the Associative Property to rewrite  $(9 \times 5) \times 200$  so it will be easier to solve. Which expression could be the one Lee writes?

- (A)  $(9 \times 200) + (5 \times 200) = 2800$
- (B)  $(9 \times 2) + (100 \times 5) = 518$
- (C)  $9 \times (5 \times 200) = 9,000$
- (D)  $(3 \times 3 \times 5) \times (2 \times 10 \times 10) = 9,000$

*D uses distributive property. Associative property allows you to rearrange the factors, but the factors stay the same!*

12. Which expression shows a way to multiply  $3 \times 5,109$  using place value and expanded form?

- (A)  $(3 \times 5) + (3 \times 1) + (3 \times 9) = 45$
- (B)  $(3 \times 5,000) + (3 \times 100) + (3 \times 9) = 15,327$
- (C)  $(3 \times 500) + (3 \times 10) + (3 \times 9) = 1,557$
- (D)  $(3 \times 5,000) + (5 \times 100) + (1 \times 9) = 15,509$

$$\begin{array}{r} 3 \times 5000 \\ 3 \times 100 \\ 3 \times 9 \\ \hline 15327 \end{array}$$

expanded form:  
 $5109 = 5000 + 100 + 9$

13. Mr. Marcos buys 4 tickets for plane travel. Each ticket costs \$205. How much money does he spend on the tickets?

- (A) \$820
- (B) \$805
- (C) \$420
- (D) \$810

$$\begin{array}{r} 2 \\ 205 \\ \times 4 \\ \hline 820 \end{array}$$

14. Which expression makes this equation true?

$$15 \times 15 = \square$$

- (A)  $(10 \times 5) + (10 \times 15) = 200$
- (B)  $(10 \times 5) + (10 \times 5) = 100$
- (C)  $(10 \times 15) + (5 \times 15) = 225$
- (D)  $(10 \times 10) + (5 \times 5) = 125$

$$\begin{array}{r} 2 \\ 15 \\ \times 15 \\ \hline 175 \\ 150 \\ \hline 225 \end{array}$$

15. It takes Kelli 26.09 seconds to run a race. It takes 28.92 seconds for Jan to run the race. How many seconds faster was Kelli than Jan?

- (A) 55.01 seconds
- (B) 2.17 seconds
- (C) 1.83 seconds
- (D) 2.83 seconds

$$\begin{array}{r} 28.92 \\ - 26.09 \\ \hline 2.83 \end{array}$$



16. If there are 71 calories in 1 slice of bread, how many calories are in 5 slices of bread?

$$\begin{array}{r} 71 \\ \times 5 \\ \hline 355 \end{array}$$

- (A) 121                      (C) 315  
(B) 355                      (D) 351

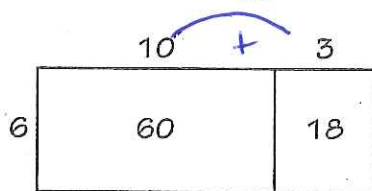
17. Fran rounds 422 to the nearest 100 to estimate  $3 \times 422$ . What would her estimate be?

$$422 \approx 400$$

$$\begin{array}{r} 400 \\ \times 3 \\ \hline 1200 \end{array}$$

- (A) 120                      (B) 1,200  
(B) 1,500                      (D) 1,000

18. Look at the model.



Which equation is shown by the model?

- (A)  $6,018 \div 6 = 1,003$   
(B)  $618 \div 6 = 103$   
(C)  $1,860 \div 6 = 310$   
(D) Not here

Fact Family:

$$\begin{array}{l} 13 \times 6 = 78 \\ 6 \times 13 = 78 \\ 78 \div 6 = 13 \\ 78 \div 13 = 6 \end{array}$$

$$\begin{array}{r} 13 \\ \times 6 \\ \hline 78 \end{array}$$

19. Hannah tiles a rectangular floor. She puts 84 tiles in place, with 7 tiles in each row. How many rows of tiles does she make?

- (A) 7  
(B) 14  
(C) 10  
(D) 12

$$\begin{array}{r} 12 \\ 7 \overline{)84} \\ \underline{74} \phantom{0} \\ 10 \phantom{0} \\ \underline{70} \\ 30 \\ \underline{21} \\ 9 \end{array}$$

20. Principal Shaw wants to give 4,860 stickers to 9 teachers. If she gives each teacher the same number of stickers, how many stickers will each teacher get?

Record your answer and fill in the bubbles on the grid. Be sure to use the correct place value.

5	4	0	.
(0)	(0)	(0)	
(1)	(1)	(1)	
(2)	(2)	(2)	
(3)	(3)	(3)	
(4)	(4)	(4)	
(5)	(5)	(5)	
(6)	(6)	(6)	
(7)	(7)	(7)	
(8)	(8)	(8)	
(9)	(9)	(9)	

$$\begin{array}{r} 540 \\ 9 \overline{)4860} \\ \underline{45} \phantom{0} \\ 36 \phantom{0} \\ \underline{36} \\ 00 \end{array}$$

$$\begin{array}{r} 3 \\ 540 \\ \times 9 \\ \hline 4860 \end{array}$$

GO ON

21. Ms. Harry makes wooden toys and cornhusk dolls. At a craft fair she sells 46 toys for \$6 each, and 35 dolls for \$8 each. How much money does she earn at the fair?

$$\begin{array}{r} 276 \\ + 280 \\ \hline 556 \end{array}$$

- (A) \$556
- (B) \$276
- (C) \$460
- (D) \$582

$$\begin{array}{r} 46 \\ \times 6 \\ \hline 276 \text{ toys} \end{array}$$

$$\begin{array}{r} 35 \\ \times 8 \\ \hline 280 \text{ dolls} \end{array}$$

22. Jeffery knows that  $34 \times 1 = 34$ . What is the product  $34 \times 100$ ?

- (A) 340
- (B) 3,400
- (C) 304
- (D) 3,040

3,400  
add 2 zeros!

23. Mrs. Grant buys and sells art. One week, she sells a painting for \$22,905. A few weeks later, she sells a sculpture for \$9,860. How much more does she earn from the painting than from the sculpture?

difference means subtract

- (A) \$13,155
- (B) \$13,735
- (C) \$12,645
- (D) \$13,045

$$\begin{array}{r} 22,905 \\ - 9,860 \\ \hline 13,045 \end{array}$$

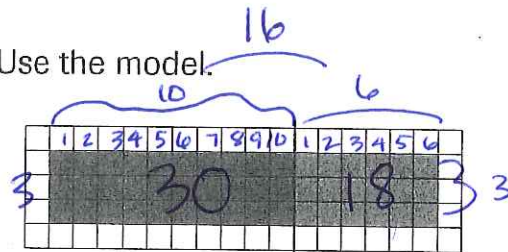
24. A basketball weighs 22 ounces. What is the weight, in ounces, of 16 basketballs?

Record your answer and fill in the bubbles on the grid. Be sure to use the correct place value.

3	5	2	.
<input type="radio"/> 0	<input type="radio"/> 0	<input type="radio"/> 0	
<input type="radio"/> 1	<input type="radio"/> 1	<input type="radio"/> 1	
<input type="radio"/> 2	<input type="radio"/> 2	<input checked="" type="radio"/> 3	
<input type="radio"/> 3	<input checked="" type="radio"/> 4	<input type="radio"/> 3	
<input type="radio"/> 4	<input type="radio"/> 4	<input type="radio"/> 4	
<input type="radio"/> 5	<input checked="" type="radio"/> 6	<input type="radio"/> 5	
<input type="radio"/> 6	<input type="radio"/> 6	<input type="radio"/> 6	
<input type="radio"/> 7	<input type="radio"/> 7	<input type="radio"/> 7	
<input type="radio"/> 8	<input type="radio"/> 8	<input type="radio"/> 8	
<input type="radio"/> 9	<input type="radio"/> 9	<input type="radio"/> 9	

$$\begin{array}{r} 22 \\ \times 16 \\ \hline 132 \\ + 220 \\ \hline 352 \text{ ounces} \end{array}$$

25. Use the model.



Which expression is equal to  $48 \div 3$ ?

- (A)  $(30 \div 3) - (18 \div 3) = 4$
- (B)  $(30 \div 3) + (18 \div 3) = 16$
- (C)  $(30 \div 10) + (18 \div 10) = 4.8$
- (D)  $(30 \div 2) + (18 \div 2) = 24$

$$\begin{array}{r} 16 \\ \times 3 \\ \hline 48 \end{array}$$

$$48 \div 3 = 16$$

$$(30 \div 3) + (18 \div 3) = 16$$

GO ON

$$\begin{array}{r} 2243 \\ \times 6 \\ \hline 1458 \end{array}$$

26. Use the model.

	50	2	
10	500	+	20
6	300	+	12

520  
312  
832

What is the product  $16 \times 52$ ?

- (A) 822
- (B) 520
- (C) 832
- (D) 1,012

$$\begin{array}{r} 52 \\ \times 16 \\ \hline 312 \\ + 520 \\ \hline 832 \end{array}$$

27. Which partial products can Yan add to find the product of  $15 \times 18$ ?

- (A) 100, 40, 8, 5 = 153
- (B) 100, 80, 50, 40 = 270 ✓
- (C) 10, 80, 50, 4 = 144
- (D) 100, 80, 50, 400 = 630

$$\begin{array}{r} 4 \\ \times 15 \\ \hline 120 \\ + 150 \\ \hline 270 \end{array}$$

$$\begin{array}{l} 10 \quad 5 \quad 10 \quad 10 \\ \times 10 \quad \times 8 \quad \times 8 \quad \times 5 \\ \hline 100 + 40 + 80 + 50 \\ \hline = 270 \end{array}$$

28. Which equation shows a way to find the product  $6 \times 243$ ? = 1,458

- (A)  $(6 \times 200) + (6 \times 40) + (6 \times 3) = 1,458$  ✓
- (B)  $(600 \times 3) + (60 \times 4) + (6 \times 2) = 2,052$
- (C)  $(6 \times 20) + (6 \times 40) + (6 \times 30) = 540$
- (D)  $(60 \times 2) + (60 \times 4) + (60 \times 30) = 2,160$

29. A mountain climber is at 14,935 feet above sea level. She climbs up another 2,148 feet. How far above sea level is she now?

- (A) 16,173 feet
- (B) 17,083 feet
- (C) 17,183 feet
- (D) 16,083 feet

$$\begin{array}{r} 14,935 \\ + 2,148 \\ \hline 17,083 \end{array}$$

30. An outdoor concert space seats 5,135 people. If every seat is filled for 4 nights of a concert series, how many people attend the concerts in all?

- (A) 20,420
- (B) 20,540
- (C) 20,520
- (D) 21,400

$$\begin{array}{r} 5,135 \\ \times 4 \\ \hline 20,540 \end{array}$$

