

Name \_\_\_\_\_

# ANSWER KEY

Fill in the bubble for the correct answer.

HW: Due April 28<sup>th</sup>

$$\begin{array}{r} 1578 \\ +4901 \\ \hline 6479 \end{array}$$

$$\begin{array}{r} 10815 \\ -6479 \\ \hline 4466 \end{array}$$

1. Ms. Birns has three bank accounts. She has \$1,578 in one account and \$4,901 in a second account. If she has \$10,945 in all three accounts, how much is in the third account?

- (A) \$17,424      (C) \$5,466  
(B) \$4,466      (D) \$6,044

2. The rule for a pattern is multiply by 2. If the first term in the pattern is 3, which shows the numbers in the pattern?

- (A) 3, 6, 12, 24, ...  
~~(B) 8, 16, 32, 64, ...~~  
(C) 3, 9, 18, 36, ...  
(D) 3, 5, 7, 9, ...

3, 6, 12, 24

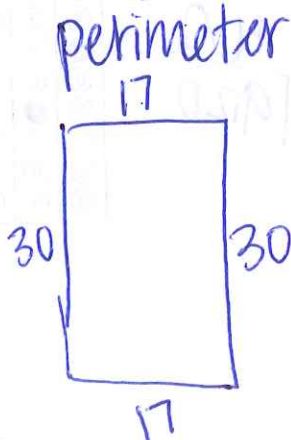
$$3 \times 2 = 6$$

$$6 \times 2 = 12$$

$$12 \times 2 = 24$$

3. Mr. Douglass wants to build a fence around his backyard. His backyard is a rectangle 30 yards long by 17 yards wide. How many yards of fence will he need?

- (A) 47 yards  
(B) 84 yards  
(C) 510 yards  
(D) 94 yards



$$\begin{array}{r} 30 \\ 30 \\ 17 \\ +17 \\ \hline 94 \end{array}$$

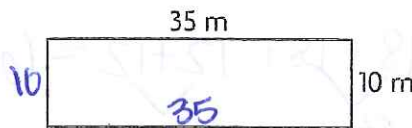
4. The input/output table shows the number of monkeys,  $m$ , and the number of bananas,  $b$ , that they eat.

Input	$m$	1	2	5	7
Output	$b$	5	10	25	35

If the output is  $m \times 5$ , how many bananas do 7 monkeys eat?

- (A) 2      (B) 36  
(C) 35      (D) 12

5. Cy wants to find the perimeter of this rectangle in meters.



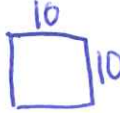
Which expression should he use to find the perimeter?

- (A)  $35 + 10 = 45$   
(B)  $35 \times 10 = 350$   
(C)  $35 + 10 + 35 + 10 = 90$   
(D)  $(2 \times 35) + (10 \times 35) = 420$

$$\begin{array}{r} 35 \\ 35 \\ 10 \\ +10 \\ \hline 90 \end{array}$$

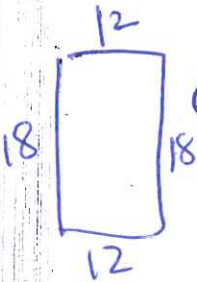
6. Melody draws a square that measures 10 centimeters by 10 centimeters. What is the area of Melody's square?

- (A) 10 square centimeters
- (B) 40 square centimeters
- (C) 20 square centimeters
- (D) 100 square centimeters



$L \times W = A$   
 $10 \times 10 = 100$

7. A small rectangular garden is 18 feet long and 12 feet wide. What is the perimeter of the garden?



- (A) 60 feet
- (B) 36 feet
- (C) 30 feet
- (D) 216 feet

$18 + 18 + 12 + 12 = 60$

8. Helena scores 592 points in a contest. Ava scores 32 more points than Helena. If Keith scores 113 fewer points than Ava, how many points does Keith score?

- (A) 479
- (B) 447
- (C) 511
- (D) 673

$$\begin{array}{r} 592 \text{ Helena} \\ + 32 \\ \hline 624 \text{ Ava} \\ - 113 \\ \hline 511 \text{ Keith} \end{array}$$

9. The input/output table shows the number of bags,  $b$ , and the number of apples,  $a$ , the bags can hold.

Input	$b$	2	4	6	8
Output	$a$	12	24	36	48

If the output is  $b \times 6$ , how many apples can 8 bags hold?

- (A) 48
- (B) 14
- (C) 12
- (D) 36

10. Cregg has 1,000 baseball cards. He gives 80 cards to his friend Tim. Then he gives half the remaining cards to his friend Kel. How many cards does Cregg have left?

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

4	6	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	

$460$   
 $2 \overline{) 920}$

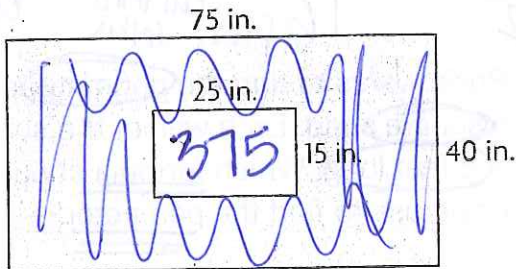
$$\begin{array}{r} 1000 \\ - 80 \\ \hline 920 \\ - 460 \text{ half} \\ \hline 460 \end{array}$$

11. Ash Road School has 838 students in grades 3 through 5. Of these, 242 are in third grade and 312 are in fourth grade. How many students are in fifth grade?

- (A) 554
- (B) 284**
- (C) 264
- (D) 324

$$\begin{array}{r}
 242 \\
 + 312 \\
 \hline
 554 \\
 7 \\
 \cancel{8}38 \\
 - 554 \\
 \hline
 284
 \end{array}$$

12. A rectangular table has a length of 75 inches and a width of 40 inches. A mat in the middle of the table has a length of 25 inches and a width of 15 inches.



What is the area of the part of the table that is not covered by the mat?

- (A) 3,375 square inches
- (B) 375 square inches**
- (C) 2,625 square inches**
- (D) 3,000 square inches

$$\begin{array}{r}
 25 \\
 \times 15 \\
 \hline
 125 \\
 + 250 \\
 \hline
 375
 \end{array}$$
  

$$\begin{array}{r}
 75 \\
 \times 40 \\
 \hline
 3000 \\
 - 375 \\
 \hline
 2625
 \end{array}$$

13. The rule for a pattern is *add 6, subtract 5*. The first term in the pattern is 16. Which shows the first five terms of the pattern?

- (A) 16, 11, 17, 12, 18
- (B) 16, 22, 28, 23, 18
- (C) 22, 17, 23, 18, 24
- (D) 16, 22, 17, 23, 18**

$$\begin{array}{l}
 +6 \quad -5 \quad +6 \quad -5 \\
 16, 22, 17, 23, 18
 \end{array}$$

14. Ms. Han plants some red flowers and some blue flowers. There are 30 blue flowers and three times as many red flowers as blue flowers. How many flowers does she plant in all?

- (A) 45
- (B) 120**
- (C) 135
- (D) 115

$$\begin{array}{l}
 30 \text{ blue} \\
 90 \text{ red} \\
 30 \times 3 = 90 \text{ red} \\
 30 + 90 = 120
 \end{array}$$

15. Shea has a new tablet computer. Its screen measures 8 inches by 5 inches. What is the area of the screen?

- (A) 40 square inches**
- (B) 50 square inches
- (C) 13 square inches
- (D) 26 square inches

$$8 \times 5 = 40$$

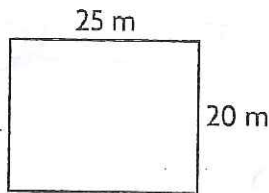


16. The first term in a pattern is 8. If the rule for the pattern is skip-count by 4, which shows the numbers in the pattern?

- (A) 8, 10, 12, 14, ...
- (B) 8, 16, 24, 32, ...
- (C) 8, 12, 16, 20, ...
- (D) 4, 8, 12, 16, ...

8, 12, 16, 20

17. A rectangular section of grass in a park measures 25 meters by 20 meters.



What is the area of this section?

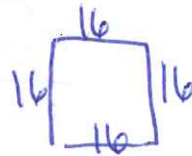
- (A) 50 square meters
- (B) 90 square meters
- (C) 500 square meters
- (D) 620 square meters

$$25 \times 20 = 500$$

$$\begin{array}{r} 25 \\ \times 20 \\ \hline 00 \\ 500 \\ \hline 500 \end{array}$$

18. A square measures 16 inches on each side. What is the perimeter of the square?

- (A) 64 inches
- (B) 256 inches
- (C) 32 inches
- (D) 48 inches



$$\begin{array}{r} 216 \\ \times 4 \\ \hline 64 \end{array}$$

19. Chefs at a pastry shop prepare 28 pies. They cut 12 pies into 8 slices. They cut the rest of the pies into 6 slices. How many slices of pie are there in all?

- (A) 180
- (B) 192
- (C) 224
- (D) 96

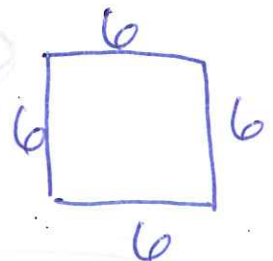
$$\begin{array}{r} 196 \\ + 96 \\ \hline 192 \end{array}$$

$$\begin{array}{r} 28 \text{ pies} \\ - 12 \text{ pies} \\ \hline 16 \text{ pies} \end{array}$$

$$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \text{ slices} \\ 36 \\ \times 6 \\ \hline 96 \text{ slices} \end{array}$$

20. Rosie wants to find the perimeter of a square shed. Each wall of the shed is 6 feet long. Which formula should Rosie use to find the perimeter?

- (A)  $P = s - 2$
- (B)  $P = s \times s$
- (C)  $P = 6s$
- (D)  $P = 4s$



$$s = 6$$

$$6 \times 4 = 24$$

Add up all sides  
or multiply length  
of one side  $\times 4$  since  
all 4 are equal.

GO ON

21. A book has 135 pages. It is divided into 9 chapters of equal length. AJ reads 6 chapters one night. How many pages does he read?

- (A) 90 (B) 105 (C) 54 (D) 95

Handwritten work for Q21:  

$$\begin{array}{r} 15 \\ 9 \overline{)135} \\ \underline{90} \\ 45 \\ \underline{45} \\ 0 \end{array}$$

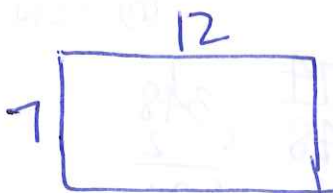
$$\begin{array}{r} 3 \\ \times 15 \\ \hline 15 \\ 45 \\ \hline 45 \\ 90 \end{array}$$
 15 pages in each chapter  
 90 pages

22. The rule for a pattern is subtract 3. The first term in the pattern is 60. Which shows the numbers in the pattern?

- (A) 60, 63, 66, 69, ...  
 (B) 60, 57, 54, 51, ...  
 (C) 60, 30, 10, 5, ...  
 (D) 60, 55, 50, 45, ...

23. Carly wants to find the area of a rectangular rug that is 7 feet wide and 12 feet long. Which expression should she use to find the area of the rug?

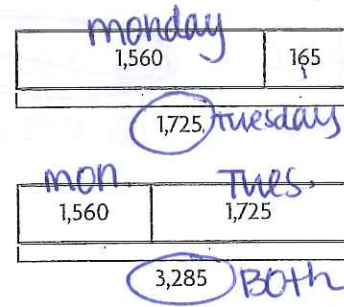
- (A)  $(7 \times 12) = 84$  ✓  
 (B)  $(2 \times 7) + 12 = 26$  X  
 (C)  $(2 \times 7) + (2 \times 12) = 38$  X  
 (D)  $(7 + 12) = 19$  X



Handwritten area calculation:  

$$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$$

24. Flynn runs 1,560 meters on Monday. On Tuesday, he runs 165 meters farther than on Monday. The strip diagrams show how to find how many meters he runs on both days.



Handwritten addition:  

$$\begin{array}{r} \text{Monday} \\ + 165 \\ \hline \text{Tuesday} \end{array}$$

What does 1,725 in the strip diagram represent?

- (A) How many meters he runs on Monday  
 (B) How many meters he runs on Tuesday  
 (C) How many meters he runs on both days  
 (D) How many meters he runs every day

25. Tiffani makes the input/output table below.

Input	a	8	12	20	32
Output	b	2	3	5	8

Which could be a rule for her table?

- (A) The output is  $a + 6$ . X  
 (B) The output is  $a - 6$ . X  
 (C) The output is  $a \div 4$ . ✓  
 (D) Not here

Handwritten division rules:  
 $8 \div 4 = 2$   
 $12 \div 4 = 3$   
 $20 \div 4 = 5$   
 $32 \div 4 = 8$



$$\begin{array}{r} 11,037 \\ + 3,703 \\ \hline 14,740 \\ \\ 19,790 \\ - 14,740 \\ \hline 5,050 \end{array}$$

26. A bear eats 19,790 calories one day. If it eats 11,037 of those calories before noon and 3,703 calories after 3 P.M., how many calories does it eat between noon and 3 P.M.?

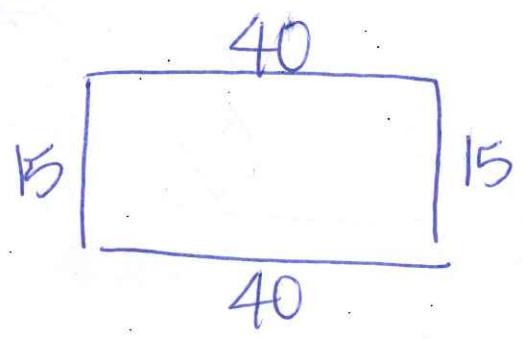
- (A) 14,740
- (B) 4,940
- (C) 5,050
- (D) 8,753

27. A rectangular swimming pool is 40 meters long and 15 meters wide. Workers install a gutter that goes all the way around the perimeter of the pool. How many meters long is the gutter?

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

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

$$\begin{array}{r} 40 \\ + 40 \\ + 15 \\ + 15 \\ \hline 110 \end{array}$$



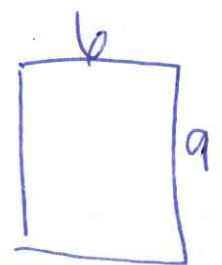
28. Essie wants to find the area of the floor in her rectangular classroom. If she knows the length and the width, which formula can she use to find the area?

- (A)  $A = l + w + l + w$  perimeter
- (B)  $A = (2 \times w) + (2 \times l)$  perimeter
- (C)  $A = 2 \times (l + w)$  nothing!
- (D)  $A = l \times w$  Area! ✓

$$A = L \times W$$

29. A book cover measures 9 inches by 6 inches. What is the area of the cover?

- (A) 45 square inches
- (B) 54 square inches
- (C) 30 square inches
- (D) 15 square inches



$$6 \times 9 = 54$$

30. On Friday, 348 people saw Hassan's play. Half as many people saw the play on Saturday as on Friday. Twice as many people saw the play on Sunday as on Friday. How many people saw the play in all?

- (A) 1,218
- (B) 174
- (C) 870
- (D) 1,044

$$\begin{array}{r} \text{Fri} \quad 348 \\ \text{Sat.} \quad 174 \\ \text{Sun} \quad 696 \\ \hline 1218 \end{array}$$

$$\begin{array}{r} 174 \\ 2 \overline{)348} \\ \underline{348} \\ 0 \end{array} \quad \times \quad \begin{array}{r} 348 \\ \times 2 \\ \hline 696 \end{array}$$

