

January 19, 2016

Dear Families,

Attached is the Unit 4 Math Test Review and answer document. This is to be used as a study guide for your child to prepare for the math test. This does NOT need to be handed in for homework. **Our math test is currently schedule for Thursday, January 26.** If you have any questions please let me know.

Thank You,  
Shalynn Weeden

Fill in the circle for the correct answer.

*Show your work.*

- Dylan has 8 times as many football cards as baseball cards. Which equation compares Dylan's football and baseball cards?  
(A)  $f \times b = 8$  (B)  $b = 8 + f$  (C)  $f = 8b$  (D)  $f = 8 + b$
- A truck driver delivers 245 gallons of milk to one store. He delivers 185 gallons of milk to a second store. Which equation shows how many gallons of milk the truck driver delivers in all?  
(E)  $245 + 185 = g$ ;  $g = 430$  gallons (F)  $245 + 185 = g$ ;  $g = 420$  gallons (G)  $245 - 185 = g$ ;  $g = 60$  gallons (H)  $245 - 185 = g$ ;  $g = 50$  gallons
- A box holds 112 cans of cat food. Which equation shows how many cans of cat food are in 8 full boxes?  
(A)  $8 + 112 = c$ ;  $c = 110$  cans (B)  $8 + 112 = c$ ;  $c = 120$  cans (C)  $8 \times 112 = c$ ;  $c = 886$  cans (D)  $8 \times 112 = c$ ;  $c = 896$  cans
- There are 18 umbrellas at the beach shop. There are 3 times as many chairs as umbrellas. Which equation shows how many chairs are at the beach shop?  
(E)  $c = 18 \div 3$ ;  $c = 6$  chairs (F)  $c = 18 - 3$ ;  $c = 15$  chairs (G)  $c = 3 + 18$ ;  $c = 21$  chairs (H)  $c = 3 \times 18$ ;  $c = 54$  chairs
- Gwen sold 2,412 movie tickets last weekend. That is 4 times the number of tickets sold on Wednesday. Which equation shows the number of tickets sold on Wednesday?  
(A)  $4t = 2,412$ ;  $t = 603$  tickets (B)  $4t = 2,412$ ;  $t = 630$  tickets (C)  $4 + t = 2,412$ ;  $t = 2,408$  tickets (D)  $4 + t = 2,412$ ;  $t = 2,308$  tickets

6. Mr. Brady has \$987. He buys a DVD player for \$171 and some movies for \$112. Which equation shows how much money Mr. Brady has left?

(F)  $987 + (171 + 112) = m$ ;  
 $m = \$1,270$

(H)  $987 - (171 - 112) = m$ ;  
 $m = \$928$

(G)  $987 + (171 - 112) = m$ ;  
 $m = \$1,046$

(K)  $987 - (171 + 112) = m$ ;  
 $m = \$704$

Solve for  $\square$  or  $n$ .

7.  $(17 + 13) \div (15 - 9) = n$

(A)  $n = 4$       (B)  $n = 5$       (C)  $n = 6$       (D)  $n = 8$

8.  $(16 - 7) \cdot 6 = \square \cdot 6$

(F)  $\square = 6$       (G)  $\square = 7$       (H)  $\square = 8$       (K)  $\square = 9$

List all factor pairs for the number.

9. 31

- (A) 0 and 30  
 (B) 1 and 31  
 (C) 0 and 31; 1 and 31  
 (D) 1 and 30; 1 and 31

10. 42

- (F) 1 and 42; 6 and 7  
 (G) 1 and 42; 3 and 14; 6 and 7  
 (H) 1 and 42; 2 and 21; 3 and 14; 6 and 7  
 (K) 1 and 42; 2 and 21; 3 and 14;  
 4 and 10; 6 and 7

11. Which number is composite?

(A) 21      (B) 37      (C) 43      (D) 59

12. Which number is prime?

(F) 15      (G) 29      (H) 57      (K) 63

13. Which number is a multiple of 9?

(A) 32      (B) 49      (C) 56      (D) 63

14. Which number is a multiple of 6?

- (F) 28      (G) 32      (H) 48      (K) 56

Use the rule to find the next 3 terms in the pattern.

15. 7, 14, 28, 56, ...

Rule: multiply by 2

- (A) 102, 204, 408    (C) 122, 244, 488  
 (B) 112, 224, 448    (D) 132, 264, 528

16. 50, 85, 120, 155, ...

Rule: add 35

- (F) 190, 225, 260    (H) 180, 215, 250  
 (G) 190, 225, 250    (K) 180, 215, 245

17. 3, 9, 27, 81, ...

Rule: multiply by 3

- (A) 162, 324, 648    (B) 162; 486; 1,458    (C) 243, 486, 972    (D) 243; 729; 2,187

Describe the next term of the pattern.



- (F) shaded triangle      (H) unshaded triangle  
 (G) shaded pentagon      (K) unshaded pentagon

19.



- (A) 5 rows with 16 triangles      (C) 6 rows with 14 triangles  
 (B) 5 rows with 15      (D) 6 rows with 12 triangles

20. Two friends are planning a 116-mile canoe trip that will last 4 days. They want to travel the same number of miles each day. Which equation shows how many miles they will travel each day?

- (F)  $116 \div 4 = m$ ;  $m = 27$  miles      (H)  $116 \times 4 = m$ ;  $m = 464$  miles  
 (G)  $116 \div 4 = m$ ;  $m = 29$  miles      (K)  $116 \times 4 = m$ ;  $m = 444$  miles

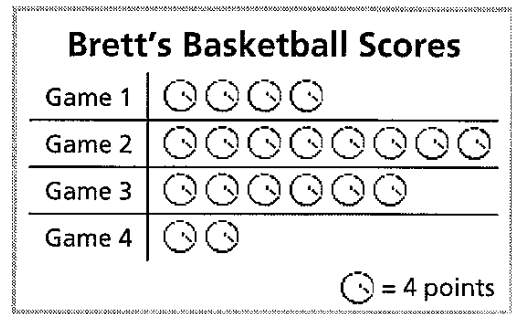
21. A website gets a large number of hits. Then it gets 1,060 more hits. The website gets 12,565 hits in all. Which equation can be used to show the hits the website had first?

Ⓐ  $h + 1,060 = 12,565$                       Ⓒ  $h - 1,060 = 12,565$   
 Ⓑ  $h = 1,060 + 12,565$                       Ⓓ  $h = 1,060 - 12,565$

Use the picture graph for 22–23.

22. How many fewer points did Brett score in Game 1 than in Game 3?

Ⓕ 36    Ⓗ 16  
 Ⓖ 30    Ⓚ 8



23. What multiplication equation compares the number of points Brett scored in Game 2 and Game 4?

Ⓐ  $p \times 8 = 24; p = 3$                       Ⓒ  $p \times 4 = 24; p = 6$   
 Ⓑ  $p \times 8 = 32; p = 4$                       Ⓓ  $p \times 4 = 32; p = 8$

24. Zack bought 3 pads of drawing paper, 4 charcoal pencils, and 5 color pencils. The pads of drawing paper cost \$8 each. The charcoal pencils and color pencils cost \$3 each. Which equation shows the total cost of the art supplies?

Ⓕ  $3 \times 8 + 3 \times 4 + 5 = c; c = \$41$                       Ⓗ  $3 \times 8 + 3 \times 4 + 5 = c; c = \$113$   
 Ⓖ  $3 \times 8 + 3 \times (4 + 5) = c; c = \$51$                       Ⓚ  $3 \times 8 + 3 \times (4 + 5) = c; c = \$297$

25. A store has DVDs on sale. The store has 5 racks of cartoons with 13 in each rack. It has 3 racks of movies with 12 in each rack. There were 25 cartoons sold in the first hour of the sale. Which shows how many cartoons and movies are left?

Ⓐ  $(5 \times 13 + 3 \times 12) - 25 = 56$                       Ⓒ  $(5 \times 13 + 3 \times 12) - 25 = 76$   
 Ⓑ  $(5 \times 13 + 3 \times 12) - 25 = 66$                       Ⓓ  $(5 \times 13 + 3 \times 12) - 25 = 86$

Fill in the circle for the correct answer.

*Show your work.*

1. Dylan has 8 times as many football cards as baseball cards. Which equation compares Dylan's football and baseball cards?

(A)  $f \times b = 8$

(B)  $f = 8b$

(C)  $b = 8 + f$

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2. A truck driver delivers 245 gallons of milk to one store. He delivers 185 gallons of milk to a second store. Which equation shows how many gallons of milk the truck driver delivers in all?

(A)  $245 + 185 = g; g = 430$  gallons

(B)  $245 - 185 = g; g = 60$  gallons

(C)  $245 + 185 = g; g = 420$  gallons

(D)  $245 - 185 = g; g = 50$  gallons

3. A box holds 112 cans of cat food. Which equation shows how many cans of cat food are in 8 full boxes?

(A)  $8 + 112 = c; c = 110$  cans

(B)  $8 \times 112 = c; c = 886$  cans

(C)  $8 + 112 = c; c = 120$  cans

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4. There are 18 umbrellas at the beach shop. There are 3 times as many chairs as umbrellas. Which equation shows how many chairs are at the beach shop?

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 G  $116 \div 4 = m$ ;  $m = 29$  miles       K  $116 \times 4 = m$ ;  $m = 444$  miles



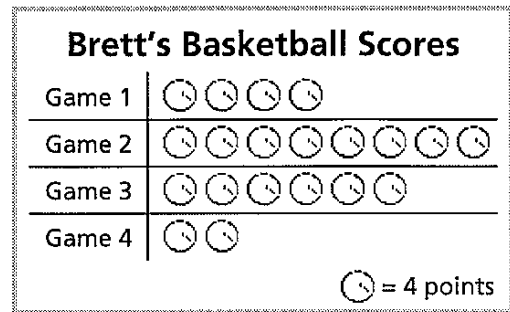
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