

# Summer Homework

Incoming 6th graders

## Math Packet # 2

Name: \_\_\_\_\_

Jay L.

Name \_\_\_\_\_

**10** Which equation can be used to find the difference of  $\frac{2}{3} - \frac{1}{4}$ ?

- (A)  $\frac{2}{3} - \frac{2}{8} = \frac{2}{5}$       (C)  $\frac{6}{7} - \frac{4}{7} = \frac{2}{7}$   
(B)  $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$       (D)  $\frac{8}{12} - \frac{3}{12} = \frac{5}{12}$

**11** Bart practiced 40 minutes each day for a concert. Which expression models the number of minutes he practiced for the concert after 4 days?

- (A)  $40 \div 4$       (C)  $40 - 4$   
(B)  $40 \times 4$       (D)  $40 + 4$

**12** In which number does the 3 have a value that is  $\frac{1}{10}$  of the value of the 3 in 23,582?

- (A) 26,319      (C) 61,837  
(B) 30,475      (D) 73,096

**13** What is the quotient of  $\frac{1}{6} \div 5$ ?

- (A)  $\frac{1}{30}$       (C)  $\frac{6}{5}$   
(B)  $\frac{5}{6}$       (D)  $\frac{30}{1}$

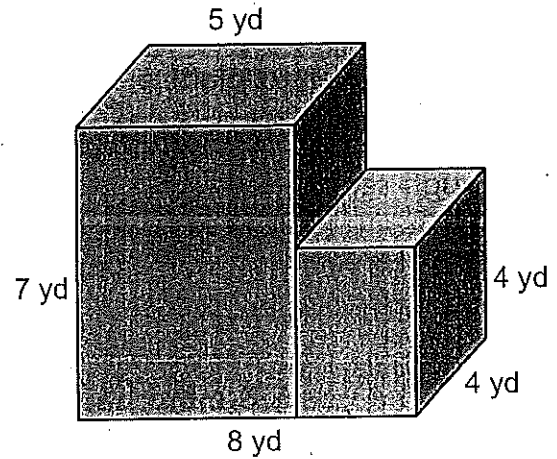
- 18** Dario made  $4\frac{1}{2}$  dozen bagels. He sold  $\frac{5}{8}$  of the bagels on Friday. How many dozen bagels did Dario sell on Friday?

(A)  $1\frac{9}{32}$                       (C)  $4\frac{5}{16}$   
(B)  $2\frac{13}{16}$                       (D)  $5\frac{5}{8}$

- 19** What is the value of the missing exponent in the equation  $7 \times 10^{\square} = 70,000$ ?

(A) 5                              (C) 3  
(B) 4                              (D) 2

- 20** What is the volume of the figure in cubic yards?



(A) 140                              (C) 188  
(B) 172                              (D) 192

Name \_\_\_\_\_

**1** What is three and seventeen-thousandths written in standard form?

- (A) 0.3017                      (C) 3.017  
 (B) 0.317                        (D) 3.1700

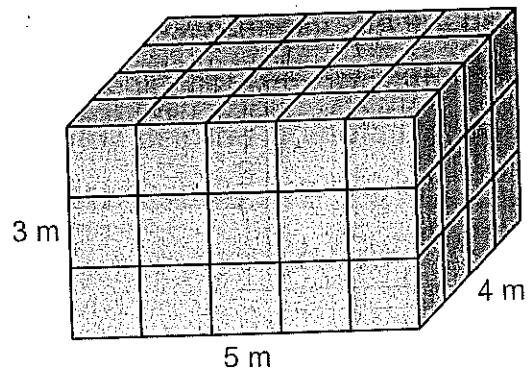
**2** Point *K* is located on the *y*-axis 8 units away from the origin. What are the coordinates of point *K*?

- (A) (0, 0)                        (C) (8, 0)  
 (B) (0, 8)                        (D) (8, 8)

**3** Rebecca walks 9 dogs each week. She gets paid \$10 a week, plus \$2 for each dog she walks. Which expression can be used to find how much Rebecca gets paid in one week?

- (A)  $10 + 2 + 9$                 (C)  $10 + (2 \times 9)$   
 (B)  $10 \times 2 + 9$                 (D)  $10 \times (2 + 9)$

**4** What is the volume of the rectangular prism in cubic meters?



- (A) 12                              (C) 45  
 (B) 24                              (D) 60

**5** The distance between two communication towers is 12.654 miles. What is this distance rounded to the nearest tenth of a mile?

- (A) 12.6                            (C) 12.7  
 (B) 12.65                        (D) 13

- 10** Molly finds a purple butterfly that measures 5.9 centimeters across its wings. Then she finds a yellow one that measures 67 millimeters across its wings. What is the difference in the measures of the butterfly wings?

(A) 8 millimeters  
 (B) 12 millimeters  
 (C) 61.1 millimeters  
 (D) 72.9 millimeters

- 11** The table shows Adrian plans to read 15 pages of his book every 2 days.

Adrian's  
Reading Plan

Number of Days	Number of Pages
2	15
4	30
6	45
8	60

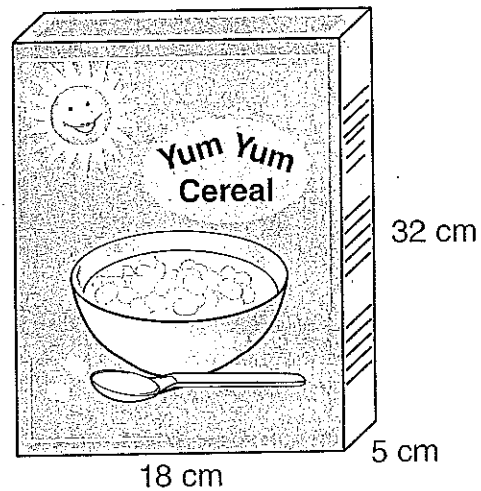
If the pattern continues, which coordinate pair would be included in the graph of Adrian's reading plan?

(A) (9, 70)      (C) (10, 70)  
 (B) (9, 75)      (D) (10, 75)

- 12** On Saturday, Roy helped his grandfather in the garage for  $1\frac{1}{4}$  hours. On Sunday, Roy helped him for  $3\frac{1}{2}$  hours. How much longer did Roy help his grandfather on Sunday than on Saturday?

(A)  $2\frac{1}{4}$  hours      (C)  $1\frac{1}{4}$  hours  
 (B)  $2\frac{3}{4}$  hours      (D)  $1\frac{3}{4}$  hours

- 13** What is the volume of the cereal box in cubic centimeters?



(A) 250      (C) 1,652  
 (B) 826      (D) 2,880

- 17** Blake, Juan, Ling, and Tina are practicing the long jump. They recorded their jumping distances in the table below.

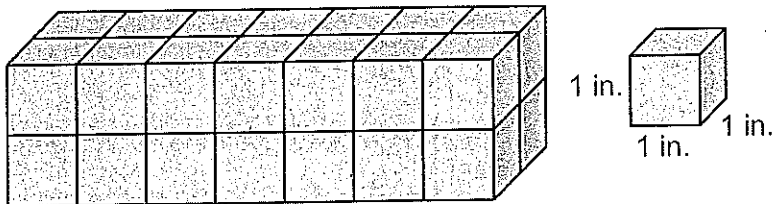
**Long Jump Practice**

Student	Distance in Feet
Blake	5.29
Juan	5.145
Ling	5.2
Tina	5.08

Who jumped the longest distance?

- (A) Blake                      (C) Ling  
(B) Juan                        (D) Tina

- 18** Keegan built the rectangular prism below using blocks.



He decides to increase the volume by doubling the height but keeping the length and the width the same. What is the volume of Keegan's new prism in cubic inches?

- (A) 14                          (C) 42  
(B) 28                        (D) 56

- 23** A tailor cut a  $\frac{1}{3}$ -yard-long strip of cloth into 6 equal pieces for a project. Which equation can be used to find the length of each piece of cloth that the tailor cut?

(A)  $\frac{1}{3} \div 6 = \frac{1}{18}$       (C)  $6 \div \frac{1}{3} = 2$   
(B)  $\frac{1}{3} \div 6 = \frac{1}{2}$       (D)  $6 \div \frac{1}{3} = 18$

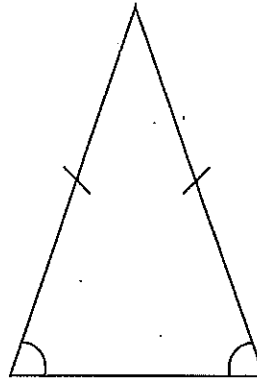
- 24** Jim puts 37 crates on a train. Each crate weighs 179 pounds. How much do the crates weigh in all?

(A) 3,963 pounds      (C) 6,623 pounds  
(B) 5,976 pounds      (D) 7,046 pounds

- 25** A beetle moved  $\frac{7}{4}$  inches on a board. A second beetle moved 3 times as far. What is true about the second beetle?

(A) It moved less than 3 inches.  
(B) It moved less than  $\frac{7}{4}$  inches.  
(C) It moved more than 3 inches.  
(D) It moved more than  $\frac{37}{4}$  inches.

- 26** Which terms can be used to classify the triangle by angle measures and side lengths?



(A) right and isosceles  
(B) right and equilateral  
(C) acute and scalene  
(D) acute and isosceles

- 27** Mr. Rojas bought 6 bottles of water that each contain 23.9 ounces of water. He bought 0.45 times as much milk as the total amount of water. How much milk did Mr. Rojas buy?

(A) 53.26 ounces  
(B) 64.53 ounces  
(C) 64.94 ounces  
(D) 74.63 ounces

