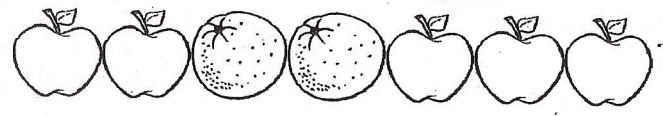


Name Key Date \_\_\_\_\_

C 1. What is the ratio of oranges to apples? 2 to 5



- A) 2 to 6
- B) 5 to 2
- C) 2 to 5
- D) 5 to 6

B 2. A fast food restaurant ordered plates. Each package contains 18 stacks of plates, and there are 9 plates in each stack. How many plates are there in 6 packages?

A) 162  
 B) 972  
 C) 172  
 D) 54

$18 \text{ stacks} \times 9 \text{ plates each stack} = 162 \text{ total plates in 1 package}$

$162 \times 6 = 972 \text{ total plates}$

C 3. Katrina and Amanda are studying in the same class. On Monday, Katrina solved 35 math problems and Amanda solved 21 math problems. On Wednesday, Katrina solved 16 math problems and Amanda solved 20. On Thursday, Katrina solved 40 math problems and Amanda solved 24. On Saturday, Katrina solved 18 math problems and Amanda solved 24 math problems. On which day did Katrina and Amanda have the same ratio of problems solved as Monday?

A) Tuesday  
 B) Wednesday  
 C) Thursday  
 D) Saturday

	Katrina	Amanda
Mon	35	21
Tues	16	20
Wed	40	24
Thurs	18	24
Fri		
Sat		

$35:21 \div 7 = 5:3$   
 $16:20 \div 4 = 4:5$   
 $40:24 \div 8 = 5:3$   
 $18:24 \div 6 = 3:4$

Name \_\_\_\_\_ Date \_\_\_\_\_

B 4. Linda's school held a walk-a-thon. The teams started walking at 9:20 am. They walked for 10 hours and 50 minutes. What time was it when the teams finished walking?

$9:20 \text{ am} + 10 \text{ hours} = 19:20 \text{ pm}$   
 $\text{OR } 7:20 \text{ pm} + 50 = 8:10 \text{ pm}$

A) 7:30pm  
 B) 8:10pm  
 C) 8:05pm  
 D) 7:50pm



A 5. Evaluate:  $8^4 - 6^4$

$4096 - 1296 = 2800$

A) 2,800  
 B) 3,471  
 C) 2,600  
 D) 3,800

C 6. A truck driver has \$424 to pay for bridge tolls. If the toll is \$4 to cross the bridge, how many times can the driver cross the bridge?

A) 104  
 B) 96  
 C) 106  
 D) 102

$\$424 \div \$4 = 106 \text{ times he can cross}$

D 7. David purchased some cookies at the cost of 5 for \$4 and sold them at 4 for \$5. David made a profit of \$90 in total. How many cookies did David purchase and sell to make that much money?

A) 45  
 B) 450  
 C) 100  
 D) 200

$\frac{\$4}{5 \text{ cookies}} = \frac{\$0.80}{1 \text{ cookie}} \text{ (cost)}$   
 $\frac{\$5}{4 \text{ cookies}} = \frac{\$1.25}{1 \text{ cookie}} \text{ (sold for)}$

$\$1.25 \text{ sold for} - \$.80 \text{ cost} = \$.45 \text{ profit per cookie}$

$\frac{\$90 \text{ total profit}}{\$.45 \text{ profit per cookie}} = 200 \text{ cookies}$

Name \_\_\_\_\_

Date \_\_\_\_\_

**B** 8. Which value (in inches) below is equal to 9 feet 3 inches?

- A) 121
- B) 111**
- C) 120
- D) 108

\* 1 foot = 12 inches

12 inches per foot  
 $\times 9$  feet  
 108 inches  
 $+ 3$  inches  
 111 total inches

**A** 9. What is  $1,311 \div 23$ ?

- A) 57**
- B) 58
- C) 42
- D) 28

**C** 10. Grade 6 students received the following scores on a recent math test. Find the median of the data set:

97, 59, 64, 65, 52, 50, 15, 62, 55, 60, 90

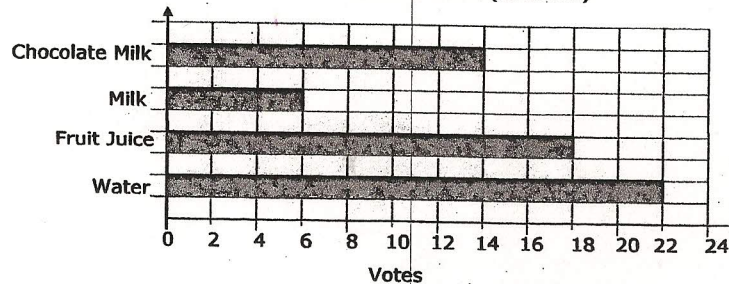
15, 50, 52, 55, 59, **60**, 62, 64, 65, 90, 97

- A) 50
- B) 59
- C) 60**
- D) 62



**C** 11. Mr. Peter did a survey in your class to know your classmates' favorite lunchtime drinks. The data is displayed by the following bar chart. How many more students voted for Fruit Juice than Chocolate Milk?

Favorite Drink (At Lunch)



- A) 2
- B) 7
- C) 4**
- D) 16

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18 students voted for Fruit Juice  
 - 14 students voted for Chocolate Milk  
 4

Name \_\_\_\_\_

Date \_\_\_\_\_

**D** 12. What is the mode of the data set? 2, 2, 8, 8, 9, 9, 9, 9, 9, 9, 9, 9

- A) 6
- B) 8
- C) 2
- D) 9**

**A** 13. On your Grade 5 Annual Examination, you got an 84% overall score. You also received your individual subject scores as you can see below. Your science grade was not clearly visible on your report card. Your mom asks what your science score was. What do you tell her? \* see calculations below \*

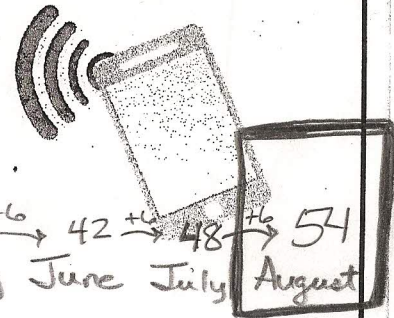
Math	95	English	85
Geography	90	Computer	80
Science	?		

- A) 70**
- B) 84
- C) 85
- D) 81

**C** 14. Stanley sent 12 text messages in January, 18 text messages in February, 24 text messages in March, 30 text messages in April, and 36 text messages in May. If this pattern continues, how many text messages will Stanley send in August?

- A) 40
- B) 44
- C) 54**
- D) 60

12  $\xrightarrow{+6}$  18  $\xrightarrow{+6}$  24  $\xrightarrow{+6}$  30  $\xrightarrow{+6}$  36  $\xrightarrow{+6}$  42  $\xrightarrow{+6}$  48  $\xrightarrow{+6}$  54  
 Jan Feb March April May June July August



**#13**  $95 + 90 + 85 + 80 + x = 84$

$\frac{350 + x}{5} = 84$

$350 + x(5) = 84(5)$

$350 + x = 420$   
 $-350$   
 $x = 70$

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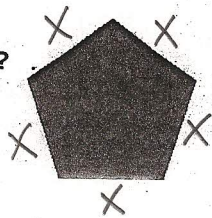
Name \_\_\_\_\_

Date \_\_\_\_\_

C 15. What the perimeter of the following figure?  
Assume length of each side is x.

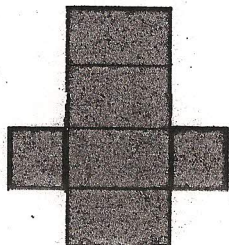
- A) x
- B)  $x^2$
- C)  $5x$
- D)  $6x$

5 sides  
 $\frac{x \times x \text{ length}}{5x}$

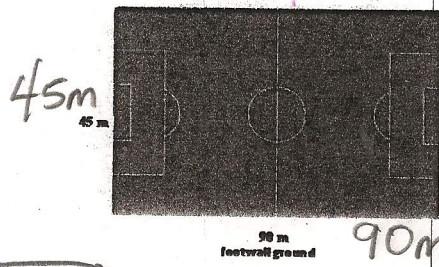


B 16. Which 3-D shape will this net make?

- A) Cube
- B) Rectangular Prism
- C) Cylinder
- D) Cone



A 17. A soccer field is 90m long and 45m wide. What is the area of the field?



$A = l \times w$   
 $A = 90 \times 45$   
 $A = 4050 \text{ m}^2$

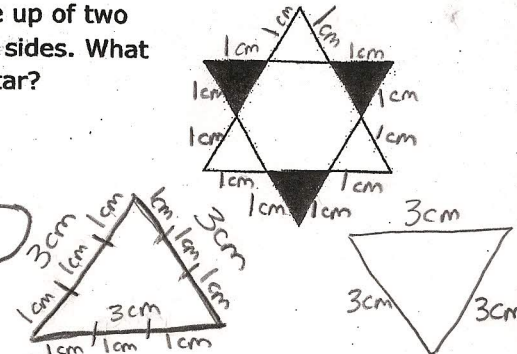
- A)  $4,050 \text{ m}^2$
- B)  $2,025 \text{ m}^2$
- C)  $270 \text{ m}^2$
- D)  $135 \text{ m}^2$

Name \_\_\_\_\_

Date \_\_\_\_\_

D 18. The following star is made up of two equilateral triangles with 3cm sides. What is the total perimeter of the star?

- A) 18 cm
- B) 36 cm
- C) 9 cm
- D) 12 cm



A 19. Simplify the expression:  $2(4x - 3) - 7(x + 1)$

- A)  $x - 13$
- B)  $15x - 13$
- C)  $x - 1$
- D)  $15x - 1$

$2(4x - 3) - 7(x + 1)$   
 $8x - 6 - 7x - 7$   
 $1x - 13$   
 Combine like terms!!

B 20. Which value for x would make the inequality true?  
 $23 < x < 32$

- A) 23
- B) 31
- C) 36
- D) 91

$23 < x < 32$   
 the value of x has to be greater than 23 and also less than 32