1. Shirley and Richard bought a gallon of milk. Each of the 4 family members drank an 8 ounce glass of the milk. How many ounces of milk were left? <u>One gallon equals 128 ounces</u>.

    (1)   32 ounces

    (2)   96 ounces

    (3)   120 ounces

    (4)   124 ounces

    (5)   160 ounces

2. Ruby gave the store clerk $2.00 for 5 candy bars. She received $.35 in change. What was the cost of <u>each</u> candy bar?

    (1) $.20

    (2) $.25

    (3) $.30

    (4) $.33

    (5) $.40

3. Priscilla's sweater requires 2 packages of green yarn for every 3 packages of brown yarn. If a sweater made with this pattern requires 6 packages of brown yarn, how many packages of green yarn will be needed?

    (1)   4

    (2)   5

    (3)   6

    (4)   7

    (5)   8

4. Big Valley Ford has 50 vehicles and 20% are trucks, how many trucks does the dealer have?
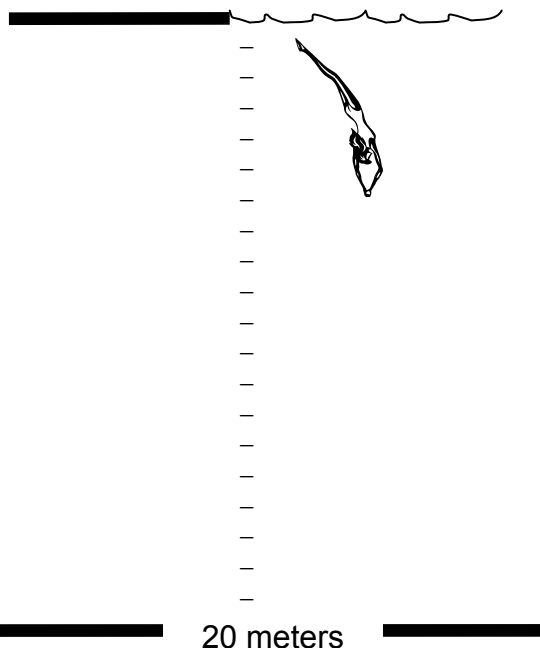
    (1)   1

    (2)   7

    (3)   10

    (4)   30

    (5)   40

5. Marlene participated in an ocean life survey. She made the following moves.

    1st   She descended 20 meters below sea level.

    2nd   She went up 10 meters.

    3rd   She went down 3 meters.

    4th   She went down 6 meters.

    5th   She went up 2 meters.

    6th   She went down 3 meters.

    What additional move must she make to return to her assigned level of 20 meters?
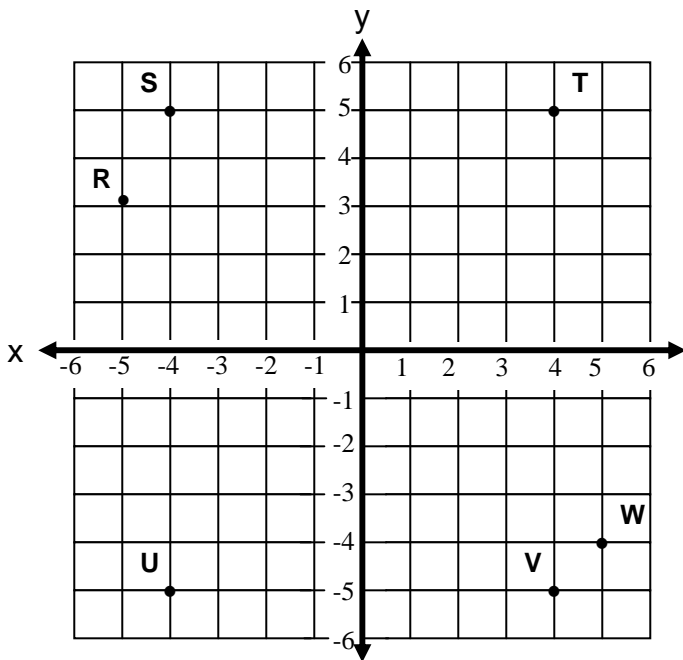
    (1)   up 5 meters

    (2)   up 3 meters

    (3)   down 3 meters

    (4)   down 1 meters

    (5)   no adjustment necessary

    20 meters

6. Find the area of a sheet of foil that is 14 inches long and 8 inches wide?

    (1)   260 square inches

    (2)   112 square inches

    (3)   56 square inches

    (4)   44 square inches

    (5)   22 square inches

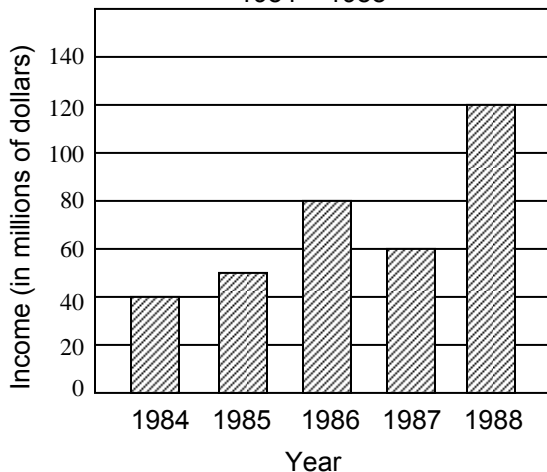7. The number pair (-4,-5) corresponds to point U on the graph. Which point corresponds to (4,5)?

(1) S

(2) W

(3) T

(4) U

(5) V

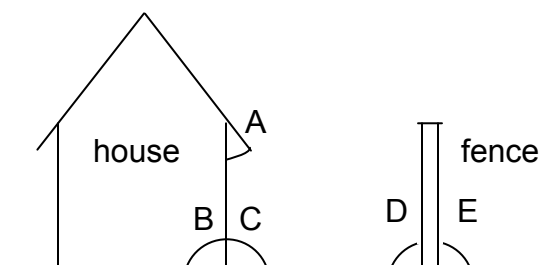Questions 8 and 9 refer to the following graph illustrating the 1984-1988 income for Three Dog Night Realty.

Three Dog Night Realty Income

1984 – 1988

8. What was the **average** income from 1984 through 1988?

(1) $20,000,000

(2) $70,000,000

(3) $90,000,000

(4) $120,000,000

(5) $450,000,000

9. By how much did the average income increase from 1986 to 1988?

(1) $400

(2) $4,000

(3) $4,000,000

(4) $40,000,000

(5) $400,000,000

10. Don's Department Store is having a sale. If Antonio buys a sports shirt that regularly is priced at $26.00, what is the **sale price** that he will pay for the shirt if it is 20% off?

(1) $5.20

(2) $6.00

(3) $20.00

(4) $20.80

(5) $26.00

11. Amtrak's passenger train travels at an average speed of 60 miles per hour between La Junta and Trinidad, which are 90 miles apart. If the train leaves the La Junta at 9 a.m., what time will the train arrive in Trinidad?

(1) 9:40 a.m.

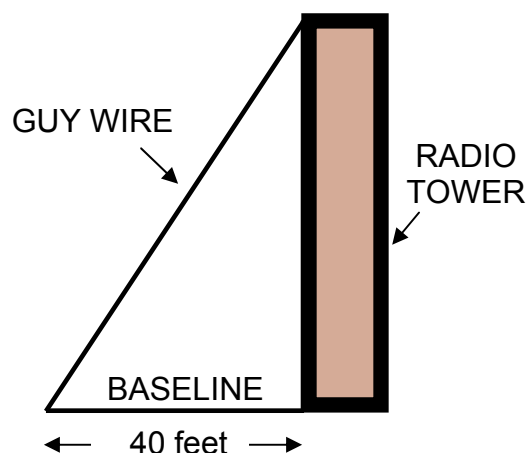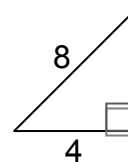(2) 10:00 a.m.

(3) 10:10 a.m.

(4) 10:20 a.m.

(5) 10:30 a.m.

12. Find the value of x.
    2x – 15 = 45?
    (1) 60
    (2) 30
    (3) 15
    (4) 10
    (5) Not enough information given

13. $\sqrt{3}$ can be expressed as 1.7320508. Which number is in the **thousandths** place?
    (1) 1
    (2) 2
    (3) 3
    (4) 5
    (5) 7

14. During the first day of the Pueblo State Fair, 6 artists and 8 jewelers sold 50% of all the items they had made. How many items were sold on the second day of the fair?
    (1) 14
    (2) 8
    (3) 7
    (4) 6
    (5) Not enough information given

15. Leonard is constructing a fence behind his house.

    Which angles must be congruent (be in agreement) to guarantee that the fence is **PERPENDICULAR** to the ground?
    (1) A and B
    (2) B and C
    (3) B and D
    (4) C and E
    (5) D and E

16. Mr. Aragon needs to know the required length of a guy wire from the point of its attachment on the baseline to the top of the radio tower, so he drew this picture as a scale model.
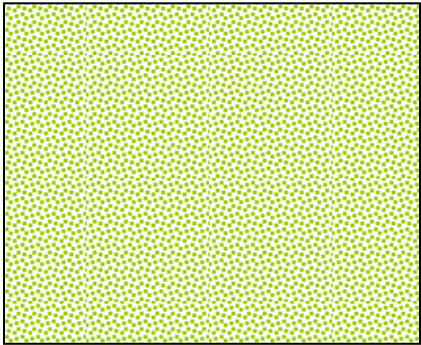

    He plans to attach the guy wire to the ground 40 feet from the foot of the radio tower.

    What is the length of the guy wire?
    (1) 4 feet
    (2) 8 feet
    (3) 50 feet
    (4) 80 feet
    (5) 100 feet

17. George earns $4.50 an hour. For each hour that he works over 40 hours a week, he earns 1½ times this hourly rate. Which of the following expressions represents the number of dollars George earns for working 45 hours in one week?
    (1) 40(4.50) + 5(2.25)
    (2) 40(4.50) + 5(6.75)
    (3) 40(4.50)(1 ½)
    (4) 45(6.75)
    (5) 45(4.50)

18. Find the approximate value of 5.07×5^2?
    (1) 15
    (2) 50
    (3) 125
    (4) 250
    (5) 625

19. Margaret uses a mixture of 4 parts water to 1 part sugar to prepare hummingbird food. If she uses this ratio, how many cups of sugar should she mix with 2 cups or water?
    (1) 8
    (2) 2
    (3) 1
    (4) ½
    (5) ¼

20. Manuel's **square** lawn has a perimeter of 900 feet.

    ?

    Which expression shows the number of feet across the front of the lawn?

    (1) $\frac{900}{4}$

    (2) $\frac{900}{2}$ x 4

    (3) $\frac{900}{4^2}$

    (4) $\sqrt{900}$

    (5) 900 x 4

21. Which bank offers the HIGHEST interest rate?

Bank	Interest Rate (%)
First National	10 ½
US Bank	10.3
Colorado Bank	10 ³/₈
Colorado Trust	10.4
Academy Bank	10 ¼

    (1) First National
    (2) US Bank
    (3) Colorado Bank
    (4) Colorado Trust
    (5) Academy Bank

22. At Otero Junior College, the ratio of computers to students is 2 to 5. How many computers does the college have for 3000 students?

Question 23 refers to the following table.

Number of Projects Completed June 30, 2011	
Bea	15
Max	7
Edna	8
Lupe	13
Henry	7

23. What is the mean number of projects completed on June 20, 2011?

24. Babcock's rectangular pool is 50 feet long, 4 feet wide, and 3.5 feet deep. How many **cubic feet** of water will this pool hold?

  (1)   140 cubic feet

  (2)   605 cubic feet

  (3)   700 cubic feet

  (4)   1400 cubic feet

  (5)   2000 cubic feet

25. Washington Primary School's rectangular playground is **p** yards wide. The length is 5 yards longer than the width. Which expression represents the area of the playground?

  (1) p^2

  (2) $p^2 + 5$

  (3) $4p + 10$

  (4) $p(p + 5)$

  (5) $p + 5$

26. For this Seltzer Punch recipe, **what percent** of the fruit punch is apple juice?

Seltzer Punch
4 liters ginger ale
3 liters apple juice
2 liters orange juice
2 liters seltzer water
1 liter papaya juice

  (1)   20%

  (2)   25%

  (3) $33^1/_3$%

  (4)   35%

  (5)   40%

27. The scale on a Chavez Architect Ltd. blueprint uses 2 millimeters to represent 5 meters.

    Jose's blueprint shows the length of a room as 6 millimeters. In which expression would x represent the length of the room in meters?
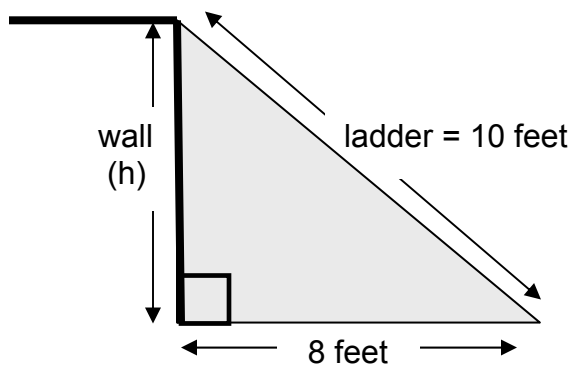
    (1) $\dfrac{5}{2} = \dfrac{6}{x}$

    (2) $\dfrac{6}{2} = \dfrac{5}{x}$

    (3) $\dfrac{x}{2} = \dfrac{6}{5}$

    (4) $\dfrac{2}{5} = \dfrac{6}{x}$

    (5) $\dfrac{2}{5} = \dfrac{x}{6}$

28. A 10 foot ladder is leaning against a wall. What height (h) is the wall if the foot of the ladder is 8 feet from the wall?

    wall (h)   ladder = 10 feet

    8 feet

    (1) 2 feet
    (2) 4 feet
    (3) 6 feet
    (4) 12 feet
    (5) 14 feet