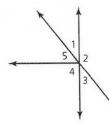
Name: ___Key__ Final Review #6 1. What value for the constant, , in the equation shown below will result in an infinite number of solutions? 6x + 18 = h(3x + 9)6x+18=2(3x+9) A. -2 B. -3 (C. 2) D. 3 2. Paula has some blue and black pens in her bag. The number of blue pens she has is three more than twice the number of black pens. She has 42 pens in all. How many blue pens does Katherine have? Blue = 2x+3 Black = X A. 13 B. 15 C. 29 D. 33 3. Write the equation of the line that passes through the points and . (5,-21) and (-2,7). $m = \frac{1}{2} - \frac{1}{2} = \frac{7}{2} = \frac{3}{2} = \frac{3}{2} = -4$ Y=mx+6 7=-4(-2)+6

Use the diagram below to answer the following questions.

- 4. Which pair of angles are considered supplementary? < Z and < S
- 5. Which pair of angles are considered complementary? < __l and < __5



6. Raya is conducting an experiment. She spins the spinner shown 100 times.

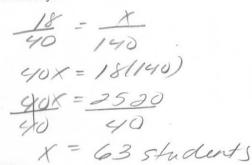
What is the **best prediction** of the number of times she will spin a 2?

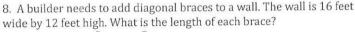
B. 50

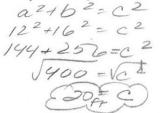
$$C. 12$$
 $EX = 100$

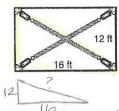
D. 1

7. Mr. Burmeister randomly surveys 40 of his students. Of those, 18 participate in an after school activity. If Mr. Burmeister has a total of 140 students, how many would you expect to participate in an after school activity?





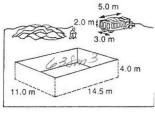


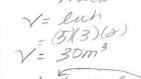


9. The excavation for a house and the trucks to carry away the material have the dimensions shown. About how many level truck loads are necessary to remove all the dirt?

$$V = lwh = (11814.5)(4)$$

$$V = 638 m^{3}$$





638 = 21, 26 30 V 21 level

22 truck loads to

10. Draw box and whisker for the given data: 35, 68, 28, 80, 95, 15, 40, 85, 75

State the 5 points and find the IQR.

15, 35, 40, 40, 75, 80, 85, 93

