

Use the following information to complete the tables. Then write the equation of proportionality that represents each table.

1)

72		27		12
24	18		7	

$k =$ _____

Equation _____

2)

	2		7	
5	10	20		65

$k =$ _____

Equation _____

3)

	114	72	48	
22		12		1

$k =$ _____

Equation _____

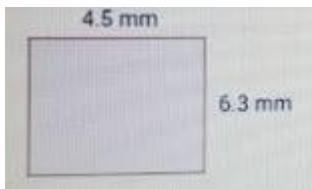
4)

3		8		27
6	14		42	

$k =$ _____

Equation _____

5) XYZ Construction is paving a parking lot. Their plans say that the scale is 2mm to 6ft. Sam thinks that the new dimensions for the parking lot would be 13ft x 19ft. Use the model to decide if Sam is correct. Explain why or why not. If he is incorrect, what would the new dimensions be?



6) XYZ Consturction charges a \$2,300 labor fee for these types of jobs, and an additional \$4.27 per square foot of asphalt poured. If the company wants their bill to exceed \$3300, how many square feet of asphalt would they need to pour?

7) If XYZ Construction paves the parking lot from problem 5, will their bill exceed \$3300? Explain.

Simplify the following expressions:

8) $3s - 8y + 5s - 3y$

9) $-5(-2x + 14)$

10) $4 - 4(7) - 8(-3)$