<u>Proportion</u> -

<u>Means and Extremes Theorem of Proportionality</u>:

Given the following proportion: $\dfrac{a}{b} = \dfrac{c}{d}$

Write 3 equivalent forms of the above proportion:

1) $\dfrac{a}{b} = \dfrac{c}{d} \implies$

2) $\dfrac{a}{b} = \dfrac{c}{d} \implies$

3) $\dfrac{a}{b} = \dfrac{c}{d} \implies$

Solve.

1) $\dfrac{21}{8x} = \dfrac{7}{4}$

2) $\dfrac{6}{x} = \dfrac{3}{x-2}$

Solve.

3) $\dfrac{4x+5}{2x+7} = \dfrac{5}{7}$

5) $\dfrac{5}{8} = \dfrac{1-y}{3+2y}$

6) An architect creates a scale model of a school. The school is 50 ft high. The ratio of the model to the actual school is 1 foot to 75 feet. Estimate the height of the model.

Assignment:
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  4-14 even,
  15-18,
  19-29 odd,
  32-43 all

! Show all steps on multiple choice and word problems. !