Check-In Proportional Reasoning

1) Circle the letter if the pairs of ratios are equivalent.

   a)   3:4   and   6:8

   b)   2:5   and   22:25

   c)   3 to 5   and   3:5

   d)   4:15   and   2:10

2) Make an equivalent ratio by finding the missing value.

   a)   2 to 7   =   4 to y

   b)   x:10   =   6:30

   c) $\dfrac{3}{8} = $ ___ to 72

   d) $\dfrac{9}{x} = \dfrac{3}{4}$

3) Determine the unit rate for each of the following:

   a)   It takes three hours to travel 240 km

   b)   Ten copies cost $1.20

   c)   Six classes have 168 students

   d)   The plant grew 108 mm in nine days

4) Solve each proportion statement:

   a) $\dfrac{x}{120} = \dfrac{30}{40}$

   b) $\dfrac{9}{r} = \dfrac{99}{44}$

c) $\dfrac{64}{8} = \dfrac{y}{2}$

d) $\dfrac{5}{16} = \dfrac{40}{x}$

5) For each of the following i) set up a proportion statement
ii) define the variable you are using
iii) determine the value of the variable
iv) write a concluding sentence (with correct units)

a) Five t-shirts cost $62.50. How much will 15 t-shirts cost?

b) The ratios of boys to girls at a music concert was 3 to 5. If there were 140 girls at the concert, how many boys were there?

c) Three cups of flour are needed to make 48 cookies. How many cookies will 5 cups of flour make?

Progress for Outcome N5:   ☺   😐   ☹