AGrader LEARNING CENTRE
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Term 2 Practice

SEC 1 MATH

Answer **all** the questions.

1. Solve the following equations.
   a) $-8r = -21$
   b) $-7q = 21$
   c) $-\frac{r}{4} = -8$
   d) $2a = 10$

2. Expand the following:
   a) $2(4x - 9y)$
   b) $5(3x - 5y)$
   c) $a(5x - 8y)$
   d) $4(2x + y + 7z)$
   e) $3q(3x - 4y - 5z)$

3. Solve the following equations.
   a) $-\frac{x}{7} = -21$
   b) $3x = 30$
   c) $5x - 9 = 11$
   d) $\frac{14}{5}x - 4 = 3$
   e) $-\frac{x}{4} = 24$
   f) $7x - 9 = 12$

4. Solve the following equations.
   a) $\frac{2x+1}{4} - \frac{3x+2}{3} = 2$
   b) $\frac{a+9}{4} + \frac{a+2}{3} = 5$
   c) $\frac{5x+4}{3} - \frac{x+3}{2} = 1$
   d) $\frac{-2}{4x+5} = \frac{3}{1-2x}$
   e) $\frac{5+4q}{2q-1} = 4$

5. Solve the following equations.
   a) $\frac{x}{3}+\frac{x}{4}=21$
   b) $\frac{x}{4}-\frac{x-4}{5}=3$
   c) $\frac{3x+2}{3}-\frac{x+3}{2}=4$
   d) $\frac{x+3}{3}-\frac{x-2}{2}=\frac{5x}{4}$

6. Amy baked $2x$ cupcakes. Betty baked 4 more cupcakes than Amy. Carol baked half as many cupcakes as Betty.
   a) Write down an expression, in terms of x, for the number of cupcakes that Carol baked.
   b) Given that the total number of cupcakes the three girls baked is 61, find the number of cupcakes Betty baked.