

Factoring Linear Expressions

Grade 7 Factors & Multiples Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING FACTORS FUN

Factorise each linear expression.

1. $10u - 20v + 30w$
 $= \underline{10(u - 2v + 3w)}$

2. $42p + 63$
 $= \underline{\hspace{2cm}}$

3. $54 - 24x$
 $= \underline{\hspace{2cm}}$

4. $30r - 50t$
 $= \underline{\hspace{2cm}}$

5. $-28p - 63 - 70q$
 $= \underline{\hspace{2cm}}$

6. $9y + 81$
 $= \underline{\hspace{2cm}}$

7. $-z - t$
 $= \underline{\hspace{2cm}}$

8. $-11k + 55l$
 $= \underline{\hspace{2cm}}$

9. $7n - 7m$
 $= \underline{\hspace{2cm}}$

10. $22 + 88j$
 $= \underline{\hspace{2cm}}$

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Grade 7 Factors & Multiples Answer Sheet

$$\begin{aligned} 1. \quad & 10u - 20v + 30w \\ & = \underline{10(u - 2v + 3w)} \end{aligned}$$

$$\begin{aligned} 2. \quad & 42p + 63 \\ & = \underline{7(6p + 9)} \end{aligned}$$

$$\begin{aligned} 3. \quad & 54 - 24x \\ & = \underline{6(9 - 4x)} \end{aligned}$$

$$\begin{aligned} 4. \quad & 30r - 50t \\ & = \underline{10(3r - 5t)} \end{aligned}$$

$$\begin{aligned} 5. \quad & -28p - 63 - 70q \\ & = \underline{-7(4p + 9 - 10q)} \end{aligned}$$

$$\begin{aligned} 6. \quad & 9y + 81 \\ & = \underline{9(7 + 9)} \end{aligned}$$

$$\begin{aligned} 7. \quad & -z - t \\ & = \underline{-z(z + t)} \end{aligned}$$

$$\begin{aligned} 8. \quad & -11k + 55l \\ & = \underline{-11(k - 5l)} \end{aligned}$$

$$\begin{aligned} 9. \quad & 7n - 7m \\ & = \underline{7(n - m)} \end{aligned}$$

$$\begin{aligned} 10. \quad & 22 + 88j \\ & = \underline{22(1 + 4j)} \end{aligned}$$