SmartMathz Numerical Expressions

Grade 5 Algebra Worksheet Date:

Name:_

LET'S MAKE LEARNING FUN

- 1. Write the equivalent numerical expression: Multiply $3\frac{3}{5}$ by 5.8, then halve the product:
- 2. Evaluate the following expressions:
 - a. $(11-6) \div \frac{1}{6}$ b. $\frac{9}{5} \times \left(4 \times \frac{1}{6}\right)$ c. $\frac{1}{10} \div \left(5 \div \frac{1}{2}\right)$ d. $\frac{3}{4} \times \frac{2}{5} \times \frac{4}{3}$ e. 50 divided by the difference between $\frac{3}{4}$ and $\frac{5}{8}$. e. 30 multiplied by the sum of $\frac{2}{5}$ and $\frac{4}{3}$.
- 3. Write the equivalent expression in word from.





Numerical Expressions

Grade 5 Algebra Worksheet

1. Write the equivalent numerical expression:

Multiply $3\frac{3}{5}$ by 5.8, then halve the product:

$$\left(3\frac{3}{5} \times 5.8\right) \div 2$$

- 2. Evaluate the following expressions:
 - a. $(11-6) \div \frac{1}{6}$

Answer

$$(11-6) \div \frac{1}{6} = 5 \div \frac{1}{6} = 5 \times \frac{6}{1} = 5 \times 6 = 30$$

b. $\frac{9}{5} \times \left(4 \times \frac{1}{6}\right)$

Answer

$$\frac{9}{5} \times \left(4 \times \frac{1}{6}\right) = \frac{9}{5} \times \frac{4}{6} = \frac{\cancel{9}{5}^3}{\cancel{5}} \times \frac{4}{\cancel{6}^2} = \frac{3}{5} \times \frac{4}{2} = \frac{3}{5} \times \frac{2}{1} = \frac{6}{5} = 1\frac{1}{5}$$

c.
$$\frac{1}{10} \div \left(5 \div \frac{1}{2}\right)$$

Answer

$$\frac{1}{10} \div \left(5 \div \frac{1}{2}\right) = \frac{1}{10} \div \left(5 \times \frac{2}{1}\right) = \frac{1}{10} \div \frac{10}{1} = \frac{1}{10} \times \frac{1}{10} = \frac{1}{100}$$
d. $\frac{3}{4} \times \frac{2}{5} \times \frac{4}{3}$

Answer

$$\frac{3}{4} \times \frac{2}{5} \times \frac{4}{3} = \frac{\cancel{3}}{\cancel{4}}^{1} \times \frac{2}{5} \times \frac{\cancel{4}}{\cancel{3}}^{1} = \frac{1 \times 2 \times 1}{1 \times 5 \times 1} = \frac{2}{5}$$

e. 50 divided by the difference between $\frac{3}{4}$ and $\frac{5}{8}$.

Answer
$\frac{50}{\frac{3}{4} - \frac{5}{8}} = \frac{50}{\frac{6-5}{8}} = \frac{50}{\frac{1}{8}} = 50 \div \frac{1}{8} = 50 \times \frac{8}{1} = 50 \times 8 = 400$
f. 30 multiplied by the sum of $\frac{2}{5}$ and $\frac{4}{3}$.
Answer
$30 \times \left(\frac{2}{5} + \frac{4}{3}\right) = 30 \times \left(\frac{6+20}{15}\right) = 30 \times \frac{26}{15} = 30^{2} \times \frac{26}{15} = 2 \times 26 = 52$

3. Write the equivalent expression in word from.

Answers
a.
$$8 - \left(\frac{1}{2} \div 9\right) =$$
 The difference between 8 and $\left(\frac{1}{2} \div 9\right)$.
b. $\frac{1}{6} \times \left(4.8 - \frac{1}{2}\right) =$ Sixth multiplied by the difference between 4.8 and $\frac{1}{2}$.
c. $\left(3\frac{1}{8} + 4.5\right) \div 5 =$ The sum of $3\frac{1}{8}$ and 4.5 divided by 5.
d. $(7 - 4) \div \frac{1}{5} =$ The difference between 7 and 4 divided by fifth.
e. $32 \div \left(\frac{3}{8} - \frac{1}{4}\right) =$ 32 divided by the difference between $\frac{3}{8}$ and $\frac{1}{4}$.