SmartMathz

Numerical Expressions

Grade 5 Algebra Worksheet

Date:_____ Name:_____

LET'S MAKE LEARNING FUN

1. Circle each expression that is not equivalent to the expression in **bold**.

   a. **37 × 19**

$(30 \times 19) - (7 \times 29)$	37 nineteens	$37 \times (20 - 1)$	$(40 - 2) \times 19$

   b. **26 × 35**

35 twenty-sixes	$(26+30) \times (26+5)$	$(26 \times 30) + (26 \times 5)$	$35 \times (20+60)$

   c. **34 × 89**

$34 \times (80 + 9)$	$(34 \times 8) + (34 \times 9)$	$34 \times (90 - 1)$	89 twenty-sixes

2. Solve mentally.

   a. $16 \times 99 =$ _____

   b. $20 \times 101 =$ _____

3. Circle the expression equivalent to the *difference* between 7 and 4, divided by a *fifth*.

$7 + \left(4 + \frac{1}{5}\right)$	$\frac{7-4}{5}$	$(7-4) \div \frac{1}{5}$	$\frac{1}{5} \div (7-4)$

4. Circle the expression(s) equivalent to 42 divided by the sum of $\frac{2}{3}$ and $\frac{3}{4}$.

$\left(\frac{2}{3} + \frac{3}{4}\right) \div 42$	$\left(42 \div \frac{2}{3}\right) + \frac{3}{4}$	$42 \div \left(\frac{2}{3} + \frac{3}{4}\right)$	$\frac{42}{\frac{2}{3} + \frac{3}{4}}$

5. Write the equivalent numerical expression:

   A fourth as much as the sum of $3\frac{1}{8}$ and 4.5: _____

Numerical Expressions

Grade 5 Algebra Worksheet

1. Circle each expression that is not equivalent to the expression in **bold**.

   a. **37 × 19**

Answer

$(30 \times 19) - (7 \times 29)$ 37 nineteens $37 \times (20 - 1)$ $(40 - 2) \times 19$

You will get the answer above and know they are not equivalent to the expression in **bold** when you carefully work out all the provided options.

   b. **26 × 35**

Answer

35 twenty-sixes $(26 + 30) \times (26 + 5)$ $(26 \times 30) + (26 \times 5)$

$35 \times (20 + 60)$

You will get the answer above and know they are not equivalent to the expression in **bold** when you carefully work out all the provided options.

c. **34 × 89**

Answer

$34\times(80+9)$ $(34 \times 8) + (34 \times 9)$ $34\times(90-1)$ 89 twenty-sixes

You will get the answer above and know they are not equivalent to the expression in **bold** when you carefully work out all the provided options.

2. Solve mentally.

Answer

a. $16 \times 99 =$ **1584**

b. $20 \times 101 =$ **2020**

3. Circle the expression(s) equivalent to the *difference* between 7 and 4, divided by a *fifth*.

$7 + \left(4 + \frac{1}{5}\right)$ $\frac{7-4}{5}$ $(7-4) \div \frac{1}{5}$ $\frac{1}{5} \div (7-4)$

4. Circle the expression(s) equivalent to 42 divided by the sum of $\frac{2}{3}$ and $\frac{3}{4}$.

Answer

$\left(\frac{2}{3} + \frac{3}{4}\right) \div 42$ $\left(42 \div \frac{2}{3}\right) + \frac{3}{4}$ $42 \div \left(\frac{2}{3} + \frac{3}{4}\right)$ $\frac{42}{\frac{2}{3} + \frac{3}{4}}$

5. Write the equivalent numerical expression:

A fourth as much as the sum of $3\frac{1}{8}$ and 4.5: _____

Answers will vary and could include the following:

$\frac{1}{4} \times \left(3\frac{1}{8} + 4.5\right)$;

$\frac{\left(3\frac{1}{8} + 4.5\right)}{4}$;

$\left(3\frac{1}{8} + 4.5\right) \div 4$