IXL Skills for Math Summer Work

Please complete linked skills for the respective grade that you are entering by achieving a score of 80 for each, along with the summer packet that is given out. Contact the office if you need access to your IXL account.



Decimal Rounding

Division

Decimal Division

Operations with Fractions and Mixed Numbers

Convert between Fractions Decimals and Percents

Grade 7

Fractions

Distributive Property

Like Terms

Rates

Proportions

Equations

Grade 8

Integers

Expressions

Two-Step Equations

Exponents

Percent Equations

Classify Numbers

Comparing Cost

Name:___

Homework Decimals and adding fractions



Answer the following. Show your work.

(6)
$$0.015 \times 0.16$$

$$(4) 3.9 \times 0.54$$

(9)
$$4 \div 0.002$$

$$(5) 2.8 \times 7$$

$$(10) \ 8\frac{1}{6} + 5\frac{1}{3}$$

(11)
$$6+2\frac{5}{9}$$

(16)
$$8\frac{4}{5} + 5\frac{1}{3}$$

$$(12) \quad 4\frac{3}{4} + 3\frac{4}{5}$$

(17)
$$9\frac{1}{10} + \frac{6}{7}$$

$$(13) \ 1\frac{5}{6} + 5\frac{3}{4}$$

$$(18) \ \ 3\frac{3}{8} + 4\frac{7}{9}$$

(14)
$$\frac{7}{9} + \frac{8}{12}$$

$$(19) \ 5\frac{3}{5} + 2\frac{7}{8}$$

(15)
$$2\frac{3}{7} + 9\frac{2}{3}$$

(20)
$$9\frac{1}{2} + 10\frac{1}{2}$$

Answer the following. Show your work.

$$(1)$$
 54.39 + 8 + 2.7

$$(6) 0.045 \times 0.09$$

(9)
$$18 \div 0.005$$

(5)
$$6.2 \times 0.58$$

$$(10) \ 8\frac{4}{7} + 2\frac{2}{3}$$

(11)
$$5\frac{1}{2} + 3\frac{5}{8}$$

(16)
$$6\frac{3}{8}-4$$

(12)
$$9+\frac{7}{8}$$

(17)
$$23\frac{2}{9} - 8\frac{5}{6}$$

(13)
$$7\frac{3}{4} - 2\frac{1}{6}$$

(18)
$$7\frac{6}{11} - 2\frac{1}{3}$$

(14)
$$12\frac{1}{7} - 8\frac{2}{3}$$

(19)
$$8\frac{4}{7} - 3\frac{8}{9}$$

(15)
$$4-\frac{3}{5}$$

$$(20) \ 5\frac{5}{9} - 1\frac{7}{8}$$

Review Sheets

Adding and Subtracting Decimals.

When adding decimals, line up the decimal points first.

Then add 0's to make the same amount of columns.

(ex) Find the sum of 2.37 + 145.8 + 9.4

When there is no point on the number, it is at the end of the number.

(ex) Find the sum of 8.64 + 37.2 + 4. the point is at the end of the 4

(ex) Find the difference of 212.3 - 8.75

When there is no point on the number, it is at the end of the number.



Dividing decimals.

The first number ALWAYS goes "in" the division box.

If there is no decimal point in the "outside" number, do not move the point "inside" the box.

If there is a decimal point in the "outside" number, move the point to the end of the number and move the point the same amount of places for the "inside" number.

Divide 2 by 0.25



Sometimes you need to borrow in subtraction.

(ex)
$$6\frac{1}{4} - 2\frac{3}{5}$$
 LCM is 20
 5 $6\frac{1}{4} - 2\frac{3}{5}$ 25 and Can't subtract.
 $9\frac{3}{5} + \frac{12}{20}$ Borrow | from the 6
 $9\frac{3}{5} + \frac{12}{20}$ add 20 and 5

$$\begin{array}{c|c}
8 & 9 & 8 \\
8 & 9 & 8 \\
\hline
-68 & 8
\end{array}$$
Relation 1, Fig.

Multiplication of fractions.

Change the mixed numbers to improper fractions.

Then do any "cross reducing" of the fractions.

(ex)
$$2\frac{6}{7} \times 2\frac{4}{5}$$

 $4\frac{20}{7} \times \frac{14}{5} = \frac{8}{7} = 8$

(ex)
$$2\frac{1}{10} \times 1\frac{1}{14}$$

$$\frac{2}{10} \times 1\frac{1}{14}$$

(ex)
$$8 \times 1\frac{1}{2}$$

 $4 \times \frac{3}{4} = \frac{13}{1} = 12$

$$(ex) \frac{15}{16} \times 1\frac{13}{15}$$

$$(+5) \times \frac{26}{15} = 24 = (34)$$

$$(+7) \times \frac{13}{15} \times \frac{13}{15} = 24 = (34)$$

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