

Middle School Math Summer Packet

The Common Core State Standards identify a limited number of topics at each grade level, allowing enough time for students to achieve fluency, if not mastery of these concepts. The subsequent year of study builds on the concepts of the previous year. Students are expected to have achieved fluency with the following:

- Multiplication and Division Facts
- Operations with Whole Numbers (+, -, \times , \div)
- Operations with Decimals (+, -, \times , \div)
- Operations with Fractions (+, -, \times , \div)

Attached you will find some worksheets involving decimals and fractions as well other foundational skills needed to be successful in middle school math. In addition to this a doc will be sent that has IXL skills that can be practiced to assure readiness of your student(s). IXL will be used throughout the year as an enrichment to instruction. Please reach out should you have any questions or issues logging in.

IXL Skills for Math Summer Work

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

Grade 6

[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 +, -, ×, ÷ fractions

Answer the following. Show your work.

(1) $8.94 + 26.9 + 5$

(10) $5 + \frac{2}{3}$

(2) $26 - 7.43$

(11) $8\frac{7}{8} - 2\frac{2}{5}$

(3) $5 - 0.5$

(12) $6\frac{1}{2} - 4\frac{5}{6}$

(4) 6.2×0.37

(13) $9 - \frac{1}{12}$

(5) 0.009×0.003

(14) $\frac{21}{25} \times \frac{5}{12}$

(6) $8.96 \div 1.6$

(15) $7\frac{1}{2} \times 3\frac{1}{3}$

(7) $55.8 \div 0.18$

(16) $4\frac{1}{2} \div 2\frac{7}{10}$

(8) $3 \div 0.015$

(17) $6 \div \frac{3}{4}$

(9) $7\frac{3}{4} + 2\frac{6}{7}$

(18) $3\frac{1}{3} \div \frac{4}{5}$

(19) $\frac{7}{10} \div 1\frac{7}{8}$

(20) $8\frac{3}{4} \div 3\frac{4}{7}$

Name: _____

multiplying and dividing real numbers

Find each product. Simplify if necessary.

(8) $-8(12)$

(9) $8(12)$

(10) $7(-9)$

(11) $5 \cdot 4.1$

(12) $-7 \cdot 1.1$

(13) $10 \cdot (-2.5)$

(14) $6\left(-\frac{1}{4}\right)$

(15) $-\frac{1}{9}\left(-\frac{3}{4}\right)$

(16) $-\frac{3}{7} \cdot -\frac{9}{10}$

(17) $-\frac{2}{11}\left(-\frac{11}{2}\right)$

(18) $\left(-\frac{2}{9}\right)^2$

(19) $(-1.2)^2$

Find each quotient. Simplify if necessary.

(30) $48 \div 3$

(31) $-84 \div 14$

(32) $-39 \div (-13)$

(33) $\frac{63}{-21}$

(34) $-46 \div (-2)$

(35) $-81 \div 9$

(36) $\frac{-121}{11}$

(37) $75 \div (-0.3)$

(40) $20 \div \frac{1}{4}$

(41) $-5 \div -\frac{5}{3}$

(42) $\frac{9}{10} \div \left(-\frac{4}{5}\right)$

(43) $-\frac{12}{13} \div \frac{12}{13}$

Solve the following equations. Show steps. NOT JUST ANSWERS.

(1) $6 + 3b = -18$

(9) $16 - 3p = 34$

(2) $-3 + 5x = 12$

(10) $15 + \frac{a}{6} = -21$

(3) $7n + 12 = -23$

(11) $-19 + \frac{c}{3} = 8$

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

(12) $-18 - 11r = 26$

(5) $-12 = 8 + \frac{f}{2}$

(13) $-9 = \frac{y}{-3} - 6$

(6) $13 = 8 - 5d$

(14) $\frac{w-7}{2} = -11$

(7) $\frac{k}{4} + 6 = -2$

(15) $\frac{i}{4} = \frac{i}{4}h + 4$

(8) $-22 = -8 + 7y$

(16) $6.42 - 10d = 2.5$

Evaluate each expression for $p = 5.5$ and $w = -2$

(1) $p + 4w$

(2) $7w - 2p$

Simplify each expression. (combine like terms)

(3) $-6.6x + 11 + 1.3 + 2x$

(4) $5n + 3(n + 4) - 1$

(5) $2(r + 5) - 2$

Use inverse operations to solve each equation. Show your steps.

(6) $x - 8 = 44$

(8) $\frac{n}{6} = -9$

(7) $k - 14 = 29$

(9) $12h = 60$

Solve each equation. Show your steps.

(10) $2m - 21 = 3$

(12) $8r + 6 = -34$

(14) $9x - 8 = -44$

(11) $-5y + 8 = 23$

(13) $5t + 0.5 = -4.75$

(15) $3p + 19 = -14$