Curriculum Outcome

N1: Demonstrate an understanding of rational numbers by: comparing and ordering rational numbers; solving problems that involve arithmetic operations on rational numbers.

Student Friendly:
“BEDMAS with fractions and decimals"

Grade 9 Warm Up

15 ÷ 5 = 3

1) Determine the missing number in each division statement.

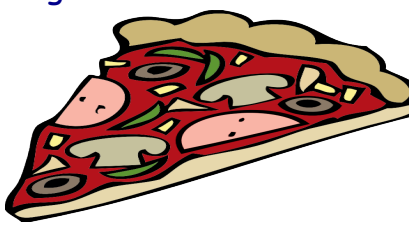
a) ____ ÷ 7.25 = 2.1

b) ____ x −0.7 =0.896

c) $\frac{91}{42} \div \square = \frac{13}{7}$

Word Problems

1) A pizza cost $25.98. If 7 people are sharing the cost, what was the cost for each person?



Grade 9 Warm Up

~~15~~ ÷ 5 = 3 ~~12~~ × 3 = 36

1) Determine the missing number in each division statement.

a) $\underline{x}$ ÷ 7.25 = 2.1

$x = 2.1 \times 7.25$

$x = 15.225$

b) $\underline{x}$ x −0.7 =0.896

$x = \frac{0.896}{(-0.7)}$

$x = -1.28$

c) $\frac{91}{42} \div \boxed{x} = \frac{13}{7}$

15 ÷ ~~5~~ = 3

$x = 15 \div 3$

$x = \frac{91}{42} \div \frac{13}{7}$

$x = \frac{91}{42} \times \frac{7}{13}$

$x = \left(\frac{7}{6}\right)\left(\frac{1}{1}\right)$

$x = \frac{7}{6}$

Word Problems

1) A pizza cost $25.98. If 7 people are sharing the cost, what was the cost for each person?

$25.98 \div 7$

$= \$3.71$

Calculator Use

$(2)^4 = 2 \times 2 \times 2 \times 2$

$= 16$

Use x^y or y^x or ^ for exponents on calculators

$(3)^2$ $(-3)^2$ $(-2)^3$

$= 9$ $= 9$

$(-3)^2 =$ $(-3)(-3)(-3)$

9) $10 \div 5 - (4 + (-3)^3)$

$10 \div 5 - (4 + (-27))$

$10 \div 5 - (-23)$

$2 + (+23)$

$= 25$

8) $[6^2 - (-2)][(-3) + (+1)]$

$[36 + (+2)]$ $[-2]$

$[38]$ $[-2]$

$= -76$

$3 + (-8)^2 + 4 \div 4$

$3 + 64 + 4 \div 4$

$3 + 64 + 1$

$67 + 1$

68

$$(-6+3)^2 - 5 \times -1$$

$$(-3)^2 - 5(-1)$$

$$9 - 5(-1)$$

$$9 + (+5)$$

$$14$$

$3\left(9 - \frac{20}{-10}\right)$

$3(9 - (20) \div (-10))$

$3(9 + (+2))$

$3(11)$

33

$3\left(9 - \frac{20}{-10}\right)$

$3(9 + (+2))$

$3\ (11)$

33