Station #1

Write the fraction as a decimal or the decimal as a fraction. (Put answer in simplest form)

1. 0.25 $= \frac{25}{100} = \boxed{\frac{1}{4}}$ Both the numerator and denominator can be divided by 25 so it's simplified to 1/4

2. $\frac{3}{8} = 3 \div 8 = 8\overline{)3} = 8\overline{)3.0} = \boxed{0.375}$

-24

60

-56

40

3. 0.60 $= \frac{60}{100} = \boxed{\frac{3}{5}}$

Both the numerator and denominator can be divided by 20 so that is why it can be simplified to $\frac{3}{5}$

Station #2

Round to the nearest underlined number.

1) 3,4<u>8</u>6.251 = 3,490.000 (The number to the right is greater than 5 so the under lined number increased by 1)

2) 0.0<u>2</u>49 = 0.0200 The number to the right is less than 5 so the underlined number stays the same

3) 14. 35<u>9</u>6 = 14.3600 The number to the right is 5 or greater so the underlined number goes up and since that would be 10, we carry over

Station #3

Divide. Reduce to lowest terms.

1 $\frac{1}{2} \div \frac{4}{5} = \frac{1}{2} \times \frac{5}{4} = \boxed{\frac{5}{8}}$

2 $5 \div \frac{2}{3} = \frac{5}{1} \times \frac{3}{2} = \frac{15}{2} = \boxed{7\frac{1}{2}}$

change to a mixed fraction

7 ← whole #

This becomes the denominator → $2\overline{)15}$ -14 ← the remainder becomes the numerator

1

Station #4

Worksheet #28 **Real Numbers: Multiplying and Dividing**

Find the product.

1. $(3)(-6)$

positive times a negative = negative

$3 \times -6 = \boxed{-18}$

2. $(-2)(-7)$

negative times a negative = positive

$(-2) \times (-7) = \boxed{14}$

3. $-1 \cdot 15$

negative times a positive = negative

$-1 \times 15 = \boxed{-15}$

Station #5

Multiply. Reduce to lowest terms.

1. $-\frac{1}{2} \times \frac{3}{4} = \frac{-1 \times 3}{2 \times 4} = \boxed{-\frac{3}{8}}$

2. $\left(\frac{5}{9}\right)\left(\frac{3}{10}\right) = \frac{5 \cdot 3}{9 \cdot 10} = \frac{15}{90} = \boxed{\frac{1}{6}}$

3. $-\frac{15}{4} \cdot -\frac{12}{5} = \frac{-15 \cdot -12}{4 \cdot 5} = \frac{180}{20} = \boxed{9}$

4. $\left(2\frac{1}{2}\right)\left(3\frac{1}{5}\right) = \frac{5}{2} \cdot \frac{16}{5} = \frac{5 \cdot 16}{2 \cdot 5} = \frac{80}{10} = \boxed{8}$

$\frac{2 \times 2 + 1}{2}$ $\qquad$ $\frac{3 \times 5 + 1}{5}$

station #6

Add or subtract as indicated. Reduce to lowest terms.

1 $2\frac{2}{3} - \frac{1}{3} = \frac{8}{3} + \left(-\frac{1}{3}\right) = \frac{8+-1}{3} = \frac{7}{3} = \boxed{2\frac{1}{3}}$

$\frac{3\times2+2}{3} = \frac{8}{3}$

$3\frac{2}{3}$ ← numerator / denominator

2 $6\frac{1}{2} - \left(-3\right)$

$\frac{2\times6+1}{2} = \frac{13}{2} - \left(-\frac{3}{1}\right) = \frac{13}{2} - \left(-\frac{6}{2}\right) = \frac{13}{2} + \left(+\frac{6}{2}\right) = \frac{18}{2}$

$\boxed{9}$

3 $2\frac{1}{2} - 1\frac{3}{4}$

$\frac{2\times2+1}{4} = \frac{5}{4}$ $\quad$ $\frac{1\times4+3}{4} = \frac{7}{4}$

$\frac{5}{4} - \frac{7}{4} = \frac{5}{4} + \frac{-7}{4} = \frac{5+-7}{4} = \frac{-2}{4} = \boxed{-\frac{1}{2}}$

station #9

Worksheet #27 **Real Numbers: Adding & Subtracting**

Find the sum or difference as indicated.

1. $7 - (-4) = 7 + (+4) = \boxed{11}$
2. $-5 - 5 = -5 + -5 = \boxed{-10}$
3. $-23 - 6 = -23 + -6 = \boxed{-29}$

station #9

Add or subtract as indicated. Reduce to lowest terms.

1 $1\frac{1}{3} + 2\frac{1}{3} = \frac{4}{3} + \frac{7}{3} = \frac{11}{3} = \boxed{3\frac{2}{3}}$

$\frac{1\times3+1}{3} = \frac{4}{3}$ $\quad \frac{2\times3+1}{3} = \frac{7}{3}$

$3\overline{)11}$

2 $3\frac{7}{8} + -1\frac{5}{8}$

$\frac{8\times3+7}{8} = \frac{31}{8}$ $\quad \frac{(8\times1+5)}{8} = -\frac{13}{8}$

$\frac{31}{8} + \frac{-13}{8} = \frac{18}{8}$

$8\overline{)18}$ $\quad$ -16 $\quad$ 2

$= 2\frac{2}{8}$

$= \boxed{2\frac{1}{4}}$

3 $22\frac{16}{17} + 4 = \frac{390}{17} + \frac{4}{1} = \frac{390}{17} + \frac{68}{17} = \frac{458}{17}$

$\frac{22\times17+16}{17} = \frac{390}{17}$

$\frac{4\cdot17}{1\cdot17}$

$= \boxed{26\frac{16}{17}}$

station #10

$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$

Worksheet #21 **Percents Problems**

Solve.

1. What is 12.% (percent) of 200? (whole) → Looking for the part

$\frac{x}{200} = \frac{12}{100} =$

$\frac{x(100)}{100} = \frac{12(200)}{100}$

$x = 24$

2. 15% (percent) of what amount (whole) is 60 (part)

$\frac{60}{x} = \frac{15}{100}$

3. 30 (part) is 70% (percent) of what number (whole)?

$\frac{60(100)}{15} = \frac{x(15)}{15}$

$x = 400$

$\frac{30}{x} = \frac{70}{100} = \frac{30(100)}{70} = \frac{70(x)}{70}$

42.86

$42.86 = x$

↑ rounded answer

station #11

Find the quotient. Simplify.

1. $-16 \div (-8)$

negative ÷ negative = positive

$-16 \div -8 = \boxed{2}$

2. $-9 \div 9$

negative ÷ positive = negative

$-9 \div 9 = \boxed{-1}$

3. $-100 \div 10$

negative ÷ positive = negative

$-100 \div 10 = \boxed{-10}$