

Class Quiz write Your name clearly
() Evaluate:
$$5^{2} - (-4)^{2}$$

 $= 25 - (16) = 25 - 16 = 9$
(2) Evaluate $\frac{\chi - y}{2\chi}$ for $\chi = 4$ and $y = -4$.
 $= \frac{4 - (-4)}{2(4)} = \frac{4 + 4}{8} = \frac{8}{8} = 1$
(3) Translate: 3 less than twire Some number.
 $= 2\chi - 3$

$$\frac{\text{Ch. 1}}{\text{Reduce a fraction}} = \frac{45}{75} = \frac{3 \cdot 3 \cdot 5}{3 \cdot 5 \cdot 5} = \frac{3}{5}$$

$$\frac{120}{300} = \frac{12 \cdot 10}{30 \cdot 10} = \frac{12}{30} = \frac{6 \cdot 2}{6 \cdot 5} = \frac{2}{5}$$
Simplify
$$\frac{65 \times 2}{80 \times 2} = \frac{5 \cdot 13 \cdot 2 \times 10}{5 \cdot 16 \cdot 2} = \frac{13 \times 10}{16}$$

Divide :
$$\frac{10}{33} \div \frac{25}{77} = \frac{10}{33} \div \frac{77}{25}$$

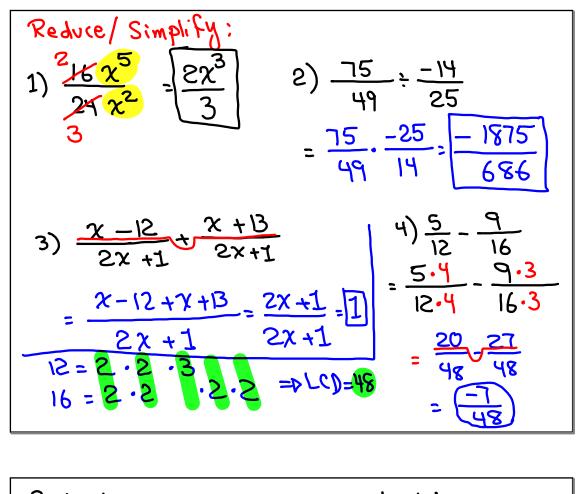
= $\frac{5 \cdot 2}{3 \cdot 7 \cdot 1} \cdot \frac{7 \cdot 1}{5}$
= $\frac{14}{15}$
Simplify $\frac{12 \cdot x^2}{25 \cdot y^3} \div \frac{18 \cdot x^4}{35 \cdot y^5} = \frac{21 \cdot x^2}{25 \cdot y^3} \cdot \frac{3 \cdot 5 \cdot 5}{35 \cdot y^5}$
= $\frac{14}{15}$
= $\frac{14}{15}$
= $\frac{14}{15}$
= $\frac{14}{15}$
= $\frac{14}{15}$
= $\frac{14}{15}$
= $\frac{14}{5} \cdot \frac{18 \cdot x^4}{35 \cdot y^5} = \frac{21 \cdot x^2}{25 \cdot y^3} \cdot \frac{3 \cdot 5 \cdot 5}{3 \cdot y^5}$

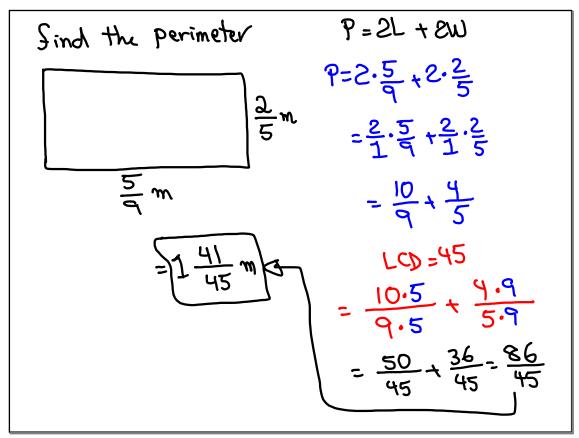
Simplify
$$\frac{3}{5} - \frac{2}{5} = \frac{3 - (-2)}{5}$$

 $= \frac{3 + 2}{5} = \frac{5}{5} = 1$
Simplify: $\frac{3x + 7}{10} + \frac{7x - 7}{10} = \frac{3x + 7(+1)x - 7}{10}$
 $= \frac{10}{10}$
 $= \frac{10}{10} = 1x$
 $= \frac{10}{10}$

Simplify
$$\frac{2}{3} - \frac{1}{4} = \frac{2 \cdot 4}{3 \cdot 4} - \frac{1 \cdot 3}{4 \cdot 3}$$

We must find
 $LCD = \frac{8}{12} - \frac{3}{12} = \frac{8 - 3}{12}$
 $LCD = \frac{12}{12} - \frac{5}{12} = \frac{5}{12}$
Simplify $\frac{3}{25} - \frac{7}{10} = \frac{3 \cdot 2}{25 \cdot 2} - \frac{7 \cdot 5}{10 \cdot 5}$
 $\frac{25}{10} = \frac{5}{50} - \frac{29}{50} = \frac{6}{50} - \frac{35}{50} = \frac{-29}{50}$





Sind area is Perimeter
$$A = S^2$$
, $P = 4S$
 $A = (\frac{1}{4})^2 = \frac{1}{4} \cdot \frac{1}{4}$
 $= \frac{1}{16} \text{ in}^2$
 $\frac{1}{4} \text{ in.}$
 $P = 4(\frac{1}{4}) = \frac{4}{1} \cdot \frac{1}{4} = \frac{4}{4} = \frac{1}{16} \text{ in}^2$

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Translate
1) Square of Some number reduced by 8

$$\chi^2 - 8$$

2) 10 more than Some number cubed.
 $\chi^3 + 10$
3) -4 times the difference of 10 and x
 $-4 \cdot (10 - x)$

4) Twice the sum of some number and 6
is equal to 10 less the number

$$2(\chi + 6) = 10 - \chi$$
 A less than B
 \rightarrow B-A
5) when 5 is added to half some
number the result is 5 less than
 $one-third of the number.$
 $\frac{1}{2}\chi + 5 = \frac{1}{3}\chi - 5$

Properties of real numbers:
1) Commutative Prop.

$$a + b = b + a$$
 $7 + 3 = 3 + 7$
 $a \cdot b = b \cdot a$ $5 \cdot (-4) = (-4) \cdot 5$
2) Associative Prop.
 $(a + b) + C = a + (b + c)$ $7(x + 2) = (x + 2) \cdot 7$
 $a(bc) = (ab)C$ $4(3x) = (7 \cdot 3)x$
 $-8(5x) = (-8 \cdot 5)x$ $(4x + 10) + 8 = 4x + (10 + 8)$

3) Distributive Prop.

$$a(b+c) = ab+ac$$

 $y(x+2) = 4x + 4.2$
 $-6(5+y) = -6.5 + (-6.y)$
4) Identity Prop
 $a+0=a$ $7+0=7$
 $a+0=a$ $-100.1 = -100$
 $-3x + 0 = -3x$
 $yxy^2 \cdot 1 = 4xy^2$

5) Inverse Prop.

$$0 + (-a) = 0$$

$$23 + (-23) = 0$$

$$0 \cdot \frac{1}{a} = 1; a \neq 0$$

$$4 \cdot \frac{1}{4} = 1$$

$$-8x + 8x = 0$$

$$-\frac{3}{5} \cdot \frac{-5}{5} = 1$$

$$= 5x + 10 - 10$$
Distribute
$$= 5x + 10 - 10$$

$$x + 10 - 10$$

Simplify

$$2(\frac{1}{2}x - 1) + 2$$

$$= (\frac{1}{2}x) - 2 \cdot 1 + 2$$
Distribution

$$= (2 \cdot \frac{1}{2}x) - 2 \cdot 1 + 2$$
Resociative

$$= 1 \cdot \frac{1}{2} - 2 \cdot 1 + 2$$
Inverse

$$= x - 2 + 2$$
Identify

$$= x + 0$$
Inverse
Identify

Simplify

$$4(2x + 5) - 5(x + 4)$$

 $= 4(2x) + 4(5) - 5x - 5(4)$ Distribution
 $= (4 \cdot 2)x + 20 - 5x - 20$ Associative
 $= 8x + 20 - 5x - 20$
 $= 8x - 5x + 20 - 20$ Commutative
 $= 3x + 0$ Inverse
 $= 3x + 0$ Inverse
 $= 3x + 0$ Inverse

Simplify and name the properties:

$$\frac{3}{5}(\frac{5}{3}\chi + 1) - \frac{3}{5}$$

$$= \frac{3}{5}(\frac{5}{3}\chi) + \frac{3}{5}\cdot 1 - \frac{3}{5}$$
Distribution

$$= (\frac{3}{5}\cdot \frac{5}{3})\chi + \frac{3}{5}\cdot 1 - \frac{3}{5}$$
Associative

$$= 1\cdot\chi + \frac{3}{5}\cdot 1 - \frac{3}{5}$$
Inverse

$$= \chi + \frac{3}{5} - \frac{3}{5} = \chi + 0$$
Identify
Inverse

$$= \chi + \frac{3}{5} - \frac{3}{5} = \chi + 0$$
Identify

find an expression	in simplest form for
the perimeter of	P = Q + P + C
NT 0 +27.7	P= x ² +5x-3 +4x ² +2x-7
· · · · · · · · · · · · · · · · · · ·	+5x ² -7X+10
5x2-1x +10	Commutative
$P = \chi^{2} + 4\chi^{2} + 5\chi^{2} + 6\chi^{2}$	5x +2x-7x-3-7+10
$= 10x^2 + 0 + 0$	Inverse
$= 10x^2$	Identity.