Do Now: Solve the equation.

1.) $\dfrac{y}{4} - 19 = -412$

$\phantom{\dfrac{y}{4}} + 19 \qquad\qquad + 19$

$4 \cdot \dfrac{y}{4} = -393 \cdot 4$

$\boxed{y = -1572}$

2.) $\dfrac{4}{1}\left(\dfrac{y - 19}{4}\right) = \left(-412\right) 4$

$y - 19 = -1648$

$ + 19 \qquad\qquad + 19$

$\boxed{y = -1629}$

㉑

$$810 - 9d = 729 \qquad 810$$
$$-810 \qquad\qquad -810 \qquad \underline{-729}$$
$$\overline{\quad -9d = -81 \quad} \qquad 81$$
$$\overline{-9} \qquad \overline{-9}$$

$$d = 9$$

$9 discount per person

(22)

$$4725 = 125 + 50w$$
$$-125 \quad\quad -125$$
$$\overline{}$$

$$\frac{4600}{50} = \frac{50w}{50}$$

One car weighs 92 tons

$$\frac{460}{5} = w$$

$$\boxed{92 = w}$$

3.1 Solving Two-Step Equations

7.NS.1
7.NS.2
7.EE

- SWBAT solve two-step equations.
- SWBAT understand numbers; understand ways of representing numbers; compute fluently.

- Calculators: No

Your class has raised $755 for chairty.The charity provides farm animals that people can use to produce food. Your class plans to buy animals for a family recovering from an earthquake.

a.) One cow costs $500, and each flock of chickens costs $20. If your class buys one cow, how many flocks of chickens can your class buy?

$$500 + 20c = 755$$
$$-500 \qquad\qquad -500$$

$$20c = 255$$
$$\overline{20} \quad \overline{20}$$

$$\frac{51}{4} = 12\frac{3}{4}$$

$$C = \frac{255}{20}$$

$$12.75$$

(12 flocks)

$$500 + 20(13)$$
$$500 + 260$$
$$\boxed{\$760}$$

$$500 + 20(12)$$
$$500 + 240$$
$$\boxed{\$740}$$

$$\underline{\underline{\$755}}$$

b.) Your class can also buy pigs for $120 each. If your class buys a cow for $500, how many pigs can your class buy?

Chickens $500 + \boxed{20c} = 755$

Pigs $500 + 120p = 755$

$-500 \qquad\qquad -500$

$$120p = 255$$
$$\frac{120p}{120} = \frac{255}{120}$$

$p \approx 2.125$

$\boxed{2 \text{ pigs}}$

Exit Pass 3.1

If your class decides to buy the cow and pig, does your class have enough money to also buy a flock of chickens? If so, how many flocks can your class buy?

1 $500 1 $120

$755

Explain why or why not.

6 flocks

$$\begin{array}{r} 500 \text{ cow}\\ +120 \text{ pig}\\ \hline 620 \end{array}$$

1 flock = 640
2 flock = 660
3 flock = 680
4 flock = 700
5 flock = 720
6 flock = 740
✗ 7 flock = 760

$15
left

$$500 + 120 + 20c = 755$$

$$620 + 20c = 755$$
$$-620 \qquad\qquad -620$$
$$\frac{20c}{20} = \frac{135}{20} \qquad c = \frac{27}{4} = 6\frac{3}{4}$$

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook.

Workbook pg. 31

#1-21 odds and #22-31 all

#2-20 evens and #22-31 all

Reflection of Today's Lesson

3.1 Solving Two-Step Equations

7.NS.1
7.NS.2
7.EE

- SWBAT solve two-step equations.
- SWBAT understand numbers; understand ways of representing numbers; compute fluently.

- Calculators: No

Homework

Finish workbook assignment