

Name _____

Date _____

1. Ava is saving for a new computer that costs \$1,218. She has already saved half of the money. Ava earns \$14.00 per hour. How many hours must Ava work in order to save the rest of the money?

Ava needs to work for _____ more hours.

1. $1,218 \div 2 = 609$

→ how many hours of 14s?

$$\begin{array}{r} 609 \\ 2 \overline{)1218} \\ \underline{12} \\ 01 \\ \underline{0} \\ 18 \\ \underline{-18} \\ 0 \end{array}$$

2. $609 \div 14$

43.5

$$\begin{array}{r} 43.5 \\ 14 \overline{)609.0} \\ \underline{56} \\ 49 \\ \underline{-42} \\ 70 \\ \underline{70} \\ 0 \end{array}$$

2. Michael has a collection of 1,404 sports cards. He hopes to sell the collection in packs of 36 cards and make \$633.75 when all the packs are sold. If each pack is priced the same, how much should Michael charge per pack?

Michael should charge _____ \$

Cards $1,404$

36 | 36 | ... | 36

1 2 ... ?

1. $1404 \div 36 = 39$

$$\begin{array}{r} 39 \\ 36 \overline{)1404} \\ \underline{108} \\ 324 \\ \underline{-324} \\ 0 \end{array}$$

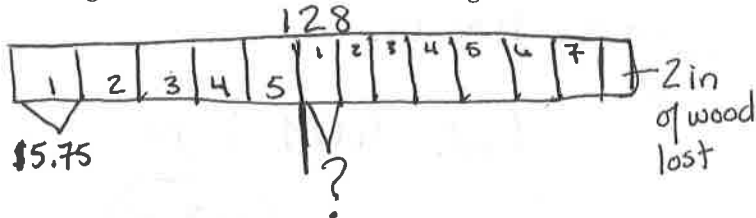
2. $633.75 \div 39$

16.25

$$\begin{array}{r} 16.25 \\ 39 \overline{)633.75} \\ \underline{39} \\ 243 \\ \underline{-234} \\ 997 \\ \underline{78} \\ 195 \\ \underline{-195} \\ 0 \end{array}$$

There can be 39 packs.
Need to now find how much to charge to make ~~39~~ \$633.75.

3. Jim Nasium is building a tree house for his two daughters. He cuts 12 pieces of wood from a board that is 128 inches long. He cuts 5 pieces that measure 15.75 inches each and 7 pieces evenly cut from what is left. Jim calculates that, due to the width of his cutting blade, he will lose a total of 2 inches of wood after making all of the cuts. What is the length of each of the seven pieces?



$$\begin{array}{r} 15.75 \\ \times 5 \\ \hline 78.75 \end{array}$$

$$\begin{array}{r} 26.00 \\ \times 3 \\ \hline 78.75 \end{array}$$

$$\begin{array}{r} 47.25 \\ \div 7 \\ \hline 6.75 \end{array}$$

$$128 - 2 = 126 \text{ (lost wood)}$$

$$15.75 \times 5 = 78.75 \text{ (5 pieces)}$$

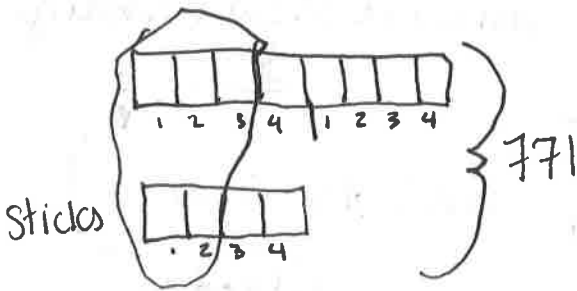
$$126 - 78.75 = 47.25 \text{ (remaining wood left over)}$$

$$47.25 \div 7 = 6.75 \text{ (7 pieces of wood)}$$

Each of the 7 pieces of wood is 6.75 in. long.

4. A load of bricks is twice as heavy as a load of sticks. The total weight of 4 loads of bricks and 4 loads of sticks is 771 kilograms. What is the total weight of 1 load of bricks and 3 loads of sticks?

One load of bricks and 3 loads of sticks weighs 321.25 kg



$$12 \text{ units} = 771 \text{ Kg}$$

$$1 \text{ unit} = 64.25$$

$$5 \text{ units} = 321.25 \text{ Kg}$$

$$\begin{array}{r} 64.25 \\ 12 \overline{) 771.00} \\ \underline{72} \\ 51 \\ \underline{48} \\ 30 \\ \underline{24} \\ 60 \\ \underline{60} \\ 0 \end{array}$$

$$\begin{array}{r} 321.25 \\ \times 5 \\ \hline 1606.25 \end{array}$$

$$\begin{array}{r} 321.25 \\ \div 100 \\ \hline 3.2125 \end{array}$$