

G5-M2-Lesson 4

1. Circle each expression that is not equivalent to the expression in **bold**.

$$14 \times 31$$

I think of this as 14 units of thirty-one.

It's like counting by 31's: 31, 62, 93, 124, ..., 434.

14 thirty-ones

31 fourteens

The commutative property says
 $14 \times 31 = 31 \times 14$, or
 14 thirty-ones = 31 fourteens.

$$(13 - 1) \times 31$$

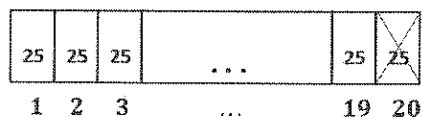
This would be equivalent if it
 were $13 + 1$ instead.

$$(10 \times 31) - (4 \times 31)$$

I think of this as 10
 thirty-ones minus 4
 thirty-ones. This
 expression is equal to
 6 thirty-ones not 14
 thirty-ones.

2. Solve using mental math. Draw a tape diagram and fill in the blanks to show your thinking.

a. $19 \times 25 = \underline{19}$ twenty-fives

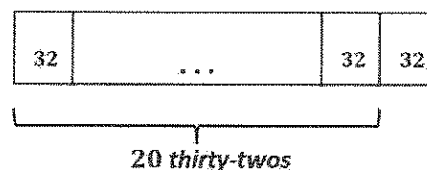


Think: 20 twenty-fives – 1 twenty-five

$$= (\underline{20} \times 25) - (\underline{1} \times 25)$$

$$= \underline{500} - \underline{25} = \underline{475}$$

b. $21 \times 32 = \underline{21}$ thirty-twos



Think: $\underline{20}$ thirty-twos + $\underline{1}$ thirty-two

$$= (\underline{20} \times 32) + (\underline{1} \times 32)$$

$$= \underline{640} + \underline{32} = \underline{672}$$

3. The pet store has 99 fish tanks with 44 fish in each tank. How many fish does the pet store have? Use mental math to solve. Explain your thinking.

I need to find 99 forty-fours.

I know that 99 forty-fours is 1 unit of forty-four less than 100 forty-fours.

I multiplied 100×44 , which is 4,400.

I need to subtract one group of 44.

$4,400 - 44$. The pet store has 4,356 fish.