

Date: _____

Chapter 12, Lesson C :

Divide 2-Digit Numbers by 2, 3, 4 and 5 (12.C.3)

1. Solve. Show your work.

a) $18 \times 3 = 54$

```
graph TD; 18[18] --> 10[10]; 18 --> 8[8]; 10 --> 30["10x3=30"]; 8 --> 24["8x3=24"]; 30 --> 54["30+24=54"]
```

$$10 \times 3 = 30$$

$$8 \times 3 = 24$$

$$30 + 24 = 54$$

c) $65 \div 5 = 13$

```
graph TD; 65[65] --> 50[50]; 65 --> 15[15]; 50 --> 10["50÷5=10"]; 15 --> 3["15÷5=3"]; 10 --> 13["10+3=13"]
```

$$50 \div 5 = 10$$

$$15 \div 5 = 3$$

$$10 + 3 = 13$$

b) $27 \div 3 = 9$

```
graph TD; 27[27] --> 10[10]; 27 --> 3[3]; 10 --> 5["10÷5=5"]; 3 --> 1["3÷3=1"]; 5 --> 6["5+1=6"]
```

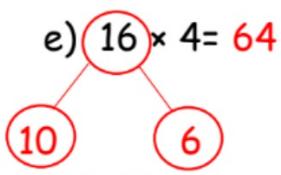
d) $13 \times 5 = 65$

```
graph TD; 13[13] --> 10[10]; 13 --> 3[3]; 10 --> 50["10x5=50"]; 3 --> 15["3x5=15"]; 50 --> 65["50+15=65"]
```

$$10 \times 5 = 50$$

$$3 \times 5 = 15$$

$$50 + 15 = 65$$

$$e) 16 \times 4 = 64$$


$$10 \times 4 = 40$$

$$6 \times 4 = 24$$

$$40 + 24 = 64$$

$$g) 45 \div 4 = 11 \text{ r } 1$$

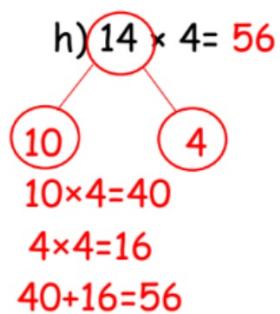
$$44 \div 4 = 11 \text{ quotient}$$

$$45 - 44 = 1 \text{ remainder}$$

$$f) 34 \div 4 = 8 \text{ r } 2$$

$$32 \div 4 = 8 \text{ quotient}$$

$$34 - 32 = 2 \text{ remainder}$$

$$h) 14 \times 4 = 56$$


$$10 \times 4 = 40$$

$$4 \times 4 = 16$$

$$40 + 16 = 56$$

i) $17 \times 3 = 51$

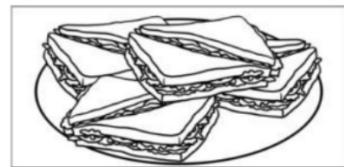
$$\begin{array}{c}
 17 \\
 / \quad \
 10 \quad 7 \\
 10 \times 3 = 30 \\
 7 \times 3 = 21 \\
 30 + 21 = 51
 \end{array}$$

j) $17 \div 2 = 8 \text{ r } 1$

$16 \div 2 = 8$ quotient

$17 - 16 = 1$ remainder

2. I put 16 sandwiches in a box.
How many sandwiches can I put in 3 boxes?



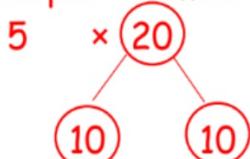
number of groups \times number of items = whole number of items

$$\begin{array}{r}
 3 \times 16 = \\
 10 \quad 6 \\
 10 \times 3 = 30 \\
 6 \times 3 = 18 \\
 30 + 18 = 48
 \end{array}$$

48 sandwiches

3. Sally has 20 marbles in one bag, how many marbles will there be in 5 such bags altogether?

groups \times items = total number of items



$$10 \times 5 = 50$$

$$10 \times 5 = 50$$

$$50 + 50 = 100$$

100 marbles

Multiplication hints:

- Find the number of groups, find the number of items in one group and multiply to find the product.
- Clues: all the items together/ items altogether/ whole number of items

Division hints:

- Whole number of items \div number of groups = number of items in each group
- Whole number of items \div number of items in each group = number of groups
- Clues: each, shared / separated equally

whole number of items

number of groups

4. Sara puts **45** paper dolls in **9** bags equally. .

How many dolls does she have in each bag?



whole number of items ÷ number of groups = number of items in each group

$$45 \div 9 = 5$$

 5 dolls

5. Sami separates 34 pieces of pizza **equally** into 2 plates.

How many pieces of pizza will he put on **each** plate?

whole number of items ÷ number of groups = number of items in each group

$$\begin{array}{c} 34 \\ \swarrow \quad \searrow \\ 20 \quad 14 \end{array} \quad \div \quad 2 \quad =$$

$$20 \div 2 = 10$$

$$14 \div 2 = 7$$

$$10+7=17$$

 17 pieces of pizza

6. Samer **shares** 52 markers with his 5 classmates **equally**.
How many will **each** of them get?
Will there be any markers **left**?

$$\begin{array}{r} 52 \div 5 = 10 \text{ r } 2 \\ \downarrow \qquad \qquad \uparrow \\ 50 \div 5 = 10 \quad \text{quotient} \\ \downarrow \\ 52 - 50 = 2 \quad \text{remainder} \end{array}$$

___ 10 ___ markers each classmate has

___ 2 ___ markers left

7. Circle.

- a. The multiples of 2 : (25 , 60 , 3 , 2 , 18 , 27 , 14 , 42 , 1)
- b. The multiples of 5 : 55 , 64 , 18 , 15 , 72 , 25 , 5 , 100)
- c. The multiples of 10 : (1 , 24 , 10 , 63 , 50 , 45 , 100 , 81 , 90)
- d. The multiples of 4 : (40 , 3 , 12 , 8 , 45 , 36 , 2 , 35)

8. Use the properties of division to find the quotient in each of the following.
Follow the colour key to shade the bubbles.

Use (Red) for 8, (Blue) for 6, (Yellow) for 5

