

Worksheet

Name:

Subject:

Class:

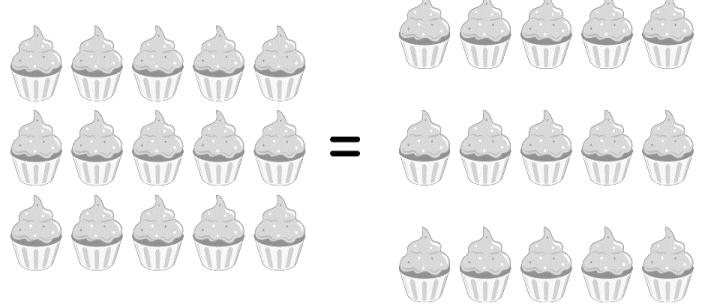
Grade 3 (A, B, C)

Date:

Math – Worksheet (1)

- Division and multiplication are inverse operations, meaning they are the opposite of each other.
- A multiplication can be used to find the answers to a division and a division can be used to find the answers to a multiplication.
- We can undo a division using multiplication and undo a multiplication using division.

Division



$$3 \times 5 = 15$$

Number of groups Number in each group Number in all

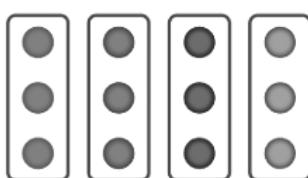
$$15 \div 3 = 5$$

Number in all Number of groups Number in each group

Multiplication is basically the repeated addition of equal groups.

Example

4 equal groups of 3

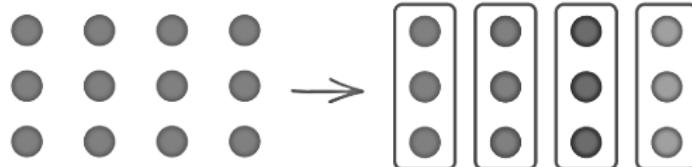


$$3 + 3 + 3 + 3 = 12$$

OR

$$4 \times 3 = 12$$

Division shares, or breaks, a number into equal sized groups.



$$12 \div 4 = 3$$

1) Change each multiplication facts into 2 different division facts.

1)	$4 \times 3 = 12$	means	$12 \div 4 = 3$	and	
2)	$5 \times 2 = 10$	means		and	
3)	$6 \times 3 = 18$	means		and	
4)	$10 \times 4 = 40$	means		and	
5)	$3 \times 5 = 15$	means		and	
6)	$8 \times 2 = 16$	means		and	
7)	$7 \times 5 = 35$	means		and	
8)	$6 \times 10 = 60$	means		and	
9)	$5 \times 6 = 30$	means		and	
10)	$3 \times 9 = 27$	means		and	
11)	$4 \times 6 = 24$	means		and	

2) Use the following numbers to write 2 multiplication facts and 2 division facts.

1

8	6	48		
<input type="text"/>	\times	<input type="text"/>	$=$	<input type="text"/>
<input type="text"/>	\times	<input type="text"/>	$=$	<input type="text"/>
<input type="text"/>	\div	<input type="text"/>	$=$	<input type="text"/>
<input type="text"/>	\div	<input type="text"/>	$=$	<input type="text"/>

2

3	7	21		
<input type="text"/>	\times	<input type="text"/>	$=$	<input type="text"/>
<input type="text"/>	\times	<input type="text"/>	$=$	<input type="text"/>
<input type="text"/>	\div	<input type="text"/>	$=$	<input type="text"/>
<input type="text"/>	\div	<input type="text"/>	$=$	<input type="text"/>

3) Find the answer for each of the following.

$56 \div 8 =$

$63 \div 7 =$

$9 \div 3 =$

$81 \div 9 =$

$72 \div 9 =$

$42 \div 7 =$

$49 \div 7 =$

$48 \div 6 =$

$56 \div 7 =$

$20 \div 4 =$

$0 \div 1 =$

$16 \div 4 =$

$27 \div 3 =$

$14 \div 7 =$

$40 \div 4 =$

$0 \div 8 =$

$16 \div 4 =$

$10 \div 10 =$

$28 \div 4 =$

$16 \div 8 =$

$15 \div 3 =$

4)

Here are some mathematical symbols.

 < > =

Write a symbol in **each** box to make correct statements.

$42 \div 6$

$42 \div 7$

$63 \div 9$

$64 \div 8$

5) Find the quotient .

$1) 36 \div 6 = \underline{\quad}$

$2) 20 \div 5 = \underline{\quad}$

$3) 16 \div 2 = \underline{\quad}$

$4) 22 \div 2 = \underline{\quad}$

$5) 30 \div 6 = \underline{\quad}$

$6) 49 \div 7 = \underline{\quad}$

$7) 81 \div 9 = \underline{\quad}$

$8) 21 \div 3 = \underline{\quad}$

$9) 10 \div 2 = \underline{\quad}$

$10) 14 \div 7 = \underline{\quad}$

$11) 16 \div 4 = \underline{\quad}$

$12) 8 \div 2 = \underline{\quad}$

$13) 63 \div 9 = \underline{\quad}$

$14) 48 \div 6 = \underline{\quad}$

$15) 45 \div 5 = \underline{\quad}$

$16) 24 \div 8 = \underline{\quad}$

$17) 15 \div 3 = \underline{\quad}$

$18) 72 \div 9 = \underline{\quad}$

$19) 56 \div 8 = \underline{\quad}$

$20) 18 \div 3 = \underline{\quad}$

$21) 48 \div 6 = \underline{\quad}$

6) Solve the following problems related to division.

① Divide 30 children into teams of 5. How many children are there in each team?



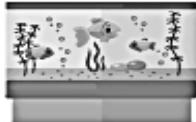
② Divide 72 passengers in 9 buses. How many passengers are there in each bus?



③ Distribute 81 chocolates among 3 students. How many chocolates are there for each student?



④ Share out 33 fishes in 3 aquariums. How many fishes are there in each aquarium?



⑤ Divide 56 liters of water in 7 buckets. How many liters of water are there in each bucket?



⑥ Divide 42 women in batches of 6. How many women are there in each batch?



**** Multiplying and dividing whole numbers by 10, 100 and 1000 and multiples of 10.**

4) Find the answer in each of the following .

1. $50 \times 10 =$ _____

11. $945 \times 10 =$ _____

2. $23 \times 100 =$ _____

12. $267 \times 100 =$ _____

3. $71 \times 1000 =$ _____

13. $783 \times 1000 =$ _____

4. $32 \times 10 =$ _____

14. $334 \times 10 =$ _____

5. $92 \times 100 =$ _____

15. $105 \times 100 =$ _____

6. $44 \times 1000 =$ _____

16. $418 \times 1000 =$ _____

7. $87 \times 10 =$ _____

17. $217 \times 100 =$ _____

8. $65 \times 100 =$ _____

18. $850 \times 10 =$ _____

9. $17 \times 1000 =$ _____

19. $113 \times 100 =$ _____

10. $99 \times 100 =$ _____

20. $600 \times 1000 =$ _____

5) Find the quotients of the following.

$$1200 \div 10 = \boxed{} \quad 350 \div 10 = \boxed{} \quad 5200 \div 10 = \boxed{}$$

$$1500 \div 100 = \boxed{} \quad 3500 \div 100 = \boxed{} \quad 5200 \div 100 = \boxed{}$$

$$9120 \div 10 = \boxed{} \quad 3000 \div 10 = \boxed{} \quad 500 \div 10 = \boxed{}$$

$$1200 \div 10 = \boxed{} \quad 3500 \div 100 = \boxed{} \quad 5090 \div 10 = \boxed{}$$

6) Find the product.

$2 \times 30 = \underline{\hspace{2cm}}$	$8 \times 20 = \underline{\hspace{2cm}}$	$4 \times 70 = \underline{\hspace{2cm}}$	$5 \times 80 = \underline{\hspace{2cm}}$
$5 \times 50 = \underline{\hspace{2cm}}$	$7 \times 30 = \underline{\hspace{2cm}}$	$4 \times 40 = \underline{\hspace{2cm}}$	$6 \times 30 = \underline{\hspace{2cm}}$
$9 \times 10 = \underline{\hspace{2cm}}$	$7 \times 80 = \underline{\hspace{2cm}}$	$2 \times 40 = \underline{\hspace{2cm}}$	$3 \times 90 = \underline{\hspace{2cm}}$

7)

Draw a line to match each calculation to the correct answer.

$$360 \times 10$$

$$3600$$

$$3600 \div 10$$

$$360$$

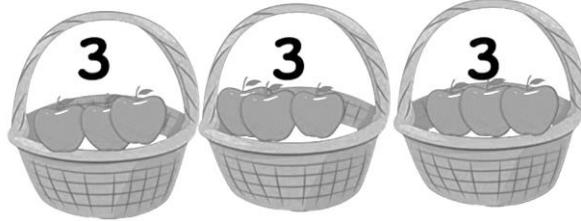
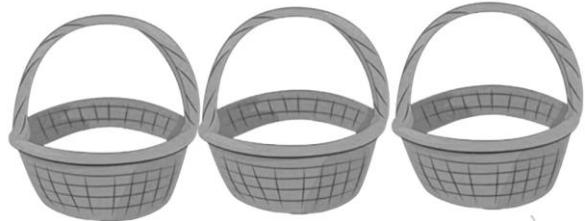
$$360\,000 \div 100$$

Division with Remainders

Sara want to put 9 apples into 3 baskets equally.



No leftover apples



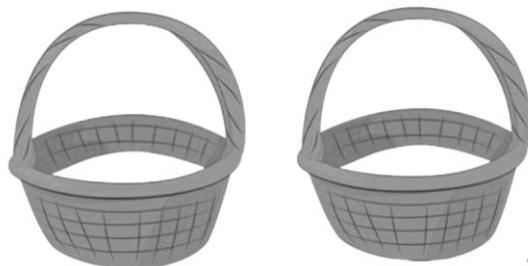
Division sentence will be $9 \div 3 = 3$

There will be 3 apples in each basket

Taylor wants to put the same number of apples bt in 2 baskets.



1 leftover apple ➡ 



Division sentence will be

$$9 \div 2 = 4 \text{ R}1$$

Remainder

There will be 4 apples in each basket and 1 apple leftover .

1) Look at the pictures and answer the questions:



1- How many oranges are there altogether?

2- Divide it into groups of 5. How many groups did you form?

3- How many oranges are left over?

4- Write the division sentence _____



1- How many strawberries are there altogether?

2- Divide it into groups of 4 . How many groups did you form?

3- How many strawberries are left over?

4- Write the division sentence _____

2) Find the quotient and remainder for each of the following.

a) $5 \div 3 =$

b) $11 \div 2 =$

c) $7 \div 5 =$

d) $13 \div 6 =$

e) $47 \div 9 =$

f) $9 \div 4 =$

g) $15 \div 4 =$

h) $23 \div 5 =$

i) $29 \div 5 =$

j) $29 \div 3 =$

a) $19 \div 4 =$

b) $50 \div 7 =$

3) Find the quotient and remainder for each of the following.

$9 \div 4 =$	$14 \div 4 =$
$13 \div 5 =$	$26 \div 3 =$
$39 \div 5 =$	$74 \div 10 =$
$29 \div 3 =$	$28 \div 5 =$
$17 \div 2 =$	$14 \div 10 =$

3) A basket has 36 oranges. The oranges are shared equally among 9 children. How many oranges does each child get?

4) A teacher gives 8 students the same number of pencils. Each student gets 4 pencils. How many pencils does the teacher give out in total?

5) A machine making mango pieces puts 8 pieces in each snack packet. The machine makes 88 pieces in 1 minute. How many packets are filled in every minute?

6) Emma has 17 stickers. She shares them equally among 4 friends.

How many stickers does each friend get?

How many stickers are left over?

7) Omar reads 12 pages every day for 7 days. How many pages does he read in one week?

8) Aline shares 34 lollipops between a group of 4 students. How many lollipops will each student get? And how many lollipops will she have left?

9) There are 10 children at breakfast club. The teacher has 22 bananas to share between them equally. How many whole bananas will each child get? And how many bananas are going to be left?

10) Raj writes $46 \div 5 = 8 \text{ r } 6$ Explain what mistake Raj has made and write the correct answer.

MULTIPLES

Multiples are the big numbers you get when you multiply.

1) List the first 10 multiples for each number.

a) 2 _____

b) 3 _____

c) 4 _____

d) 5 _____

e) 6 _____

f) 9 _____

g) 10 _____

2)

Draw a ring around **all** the multiples of 2

202

321

518

903

415

722

2) Colour the following

Colour the multiples of 6.

18	25	36	6	56
16	48	3	12	40

Colour the multiples of 10.

95	60	29	50	70
30	35	100	18	49

Colour the multiples of 7.

21	54	63	17	70
49	35	79	82	27

3) a) Draw a circle around the number that is a multiple of 3.

26 27 19 17

b) Draw a circle around the number that is a multiple of 4.

12 14 35 23

c) Circle all the multiples of 2.

219 215 218 210 207

d) Circle all the multiples of 10.

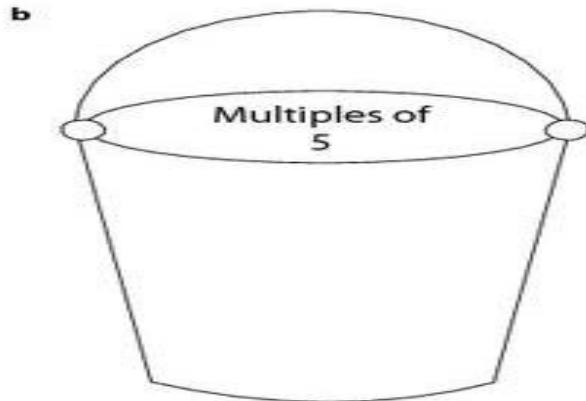
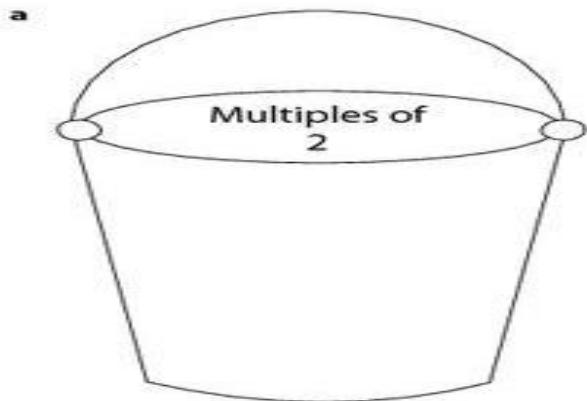
116 210 215 700

e) Circle all the Numbers that are NOT multiples of 5.

154 145 187 290 605

4) Sort the numbers below by putting them in the correct bucket (Don't forget that some numbers are multiples of 2 and 5)

2 8 14 40 25 6
18 50 15 4 20 16
10 45 12 22 35 24
30

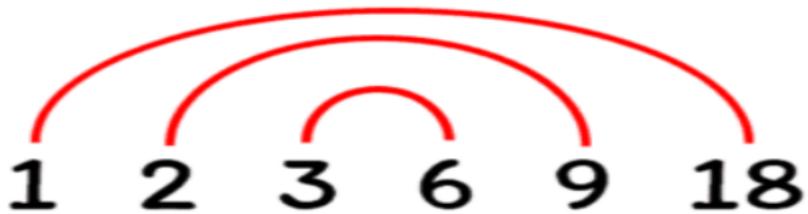


FACTORS

They are the numbers you can multiply together to get another number.

A **factor rainbow** is a way of writing factors.

Here is a factor rainbow for 18.



Each number is linked by a bow to its partner.
The product of each pair is 18.

1)

Here are six numbers.

4

6

8

12

16

32

Draw a ring around each number that is a factor of 16

2) Find the factors for the given numbers

8	Factors of 8 :
12	Factors of 12:

20	Factors of 20:
28	Factors of 28:
36	Factors of 36:
27	Factors of 27:
40	Factors of 40:
24	Factors of 24 :

9	Factors of 9 :
16	Factors of 16:

3) Write whether each statement below is true (T) or false (F).

a) 5 is a factor of both 15 and 61 _____

b) there are two factors for number 7 _____

c) 3 is a factor of 60 _____

d) 2 is a factor for all even numbers _____



Divisibility

Divisibility means after dividing there will be NO remainder

Divisibility by 2 : when the number is even

Divisibility by 5 : 0 or 5 in the ones place

Divisibility by 10 : 0 in the ones place

Divisibility by 100 : 00 in the last 2 digits

Divisibility by 25: 00 , 25 , 50 ,75 in the last 2 digits

Divisibility by 50 : 00 ,25 in the last digits

1) Circle the numbers that are divisible by 2.

546 98 11 229 7892

2) Circle the numbers that are divisible by 5.

895 3201 8325 2294 892

3) Circle the number that are divisible by 10

704 900 9250 1022 7040

4) Circle the numbers that are divisible by 25

3400 2907 2625 6475 8950

5) Circle the numbers that are divisible by 50

4590 234500 123925 531206

6)

Here are some numbers.

144

63

75

150

(a) Write the number which divides by 5 **and** divides by 2

.....

(b) Write the number which divides by 25 **but does not** divide by 50

.....

7)

Write a 3-digit number that is greater than 600 **and** is a multiple of 5

.....

