

WALT divide 3 digit numbers

Give me 5!

You have 5 minutes to answer these 5 questions.

In the back of your journal, write the date.

Try your best and show all of your working out (making sure your final answer is clear).

If you finish, check your working.

Can you beat your best score?

Can you beat your best time?

1. $32 \times 6 =$

2. $478 - 294 =$

3. $529 - 75 =$

4. $68 \div 4 =$

5. $\frac{1}{3}$ of 27 =

1. $32 \times 6 = 192$

2. $478 - 294 = 772$

3. $529 - 75 = 454$

4. $68 \div 4 = 17$

5. $\frac{1}{3} \text{ of } 27 = 9$

In Focus



made 408 pieces of chocolate to sell.



She put them into boxes of 4.
How many boxes did she get?

Is this a grouping or sharing problem?

What information have we already got?

Which information do we need?

How could we work it out?

Let's Learn

1 $4 \div 4 = \square$

1 1 1 1

$4 \div 4 = 1$

How many groups
of 4 in 4?



4 ones = 1 four

2 $40 \div 4 = \square$

10 10 10 10

$40 \div 4 = 10$

How many groups
of 4 in 40?



3 $400 \div 4 = \square$

100 100 100 100

$400 \div 4 = 100$

How many groups
of 4 in 400?



100 is the quotient.



How could we partition 408 to help us to work out $408 \div 4$?

4 $408 \div 4 =$

100

100

100

100

1

1

1

1

1

1

1

1


Method 1

408

400

8

Divide 400.
Divide 8.



408

400
100

8
2

Let's recap how to set this method out.

$$264 \div 2 = \boxed{}$$

$$200 \div 2 = \boxed{}$$

$$60 \div 2 = \boxed{}$$

$$4 \div 2 = \boxed{}$$

$$\boxed{} + \boxed{} + \boxed{} = \boxed{}$$

Now we are going to have a look at a different method we could use for division.

$$68 \div 2 =$$

$$2 \overline{) 68}$$

We can set it out like this



Method 2

$$\begin{array}{r} 2 \overline{) 68} \\ - 6 \\ \hline 8 \\ - 8 \\ \hline 0 \end{array}$$

6 tens $\div 2$

$$\begin{array}{r} 2 \overline{) 68} \\ - 6 \\ \hline 8 \\ - 8 \\ \hline 0 \end{array}$$

There are no tens left.

Each should take 34 postcards.

$$\begin{array}{r} 2 \overline{) 68} \\ - 6 \\ \hline 8 \\ - 8 \\ \hline 0 \end{array}$$

8 ones $\div 2$

$$68 \div 2 = 34$$

Steps to success!

- 1./ Divide 6 tens between 2.
- 2./ Each person gets 3 tens.
- 3./ Share 8 ones between 2.
- 4./ Each person gets 4.
- 5./ There are no ones left.

Method 2

4 hundreds \div 4

$$\begin{array}{r} 4 \overline{) 408} \\ - 4 \\ \hline 8 \\ - 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 1 \\ 4 \overline{) 408} \\ - 4 \\ \hline 8 \\ - 8 \\ \hline 0 \end{array}$$

$$408 \div 4 = 102$$

8 ones \div 4

$$\begin{array}{r} 1 0 2 \\ 4 \overline{) 408} \\ - 4 \\ \hline 8 \\ - 8 \\ \hline 0 \end{array}$$

We have divided all the ones, there are 0 left.

She got 102 boxes.

Let's use this method to work out the following questions...

1.) $396 \div 3 =$

2.) $963 \div 3 =$

Guided Practice

1 Divide.

(a) $800 \div 8 =$

$80 \div 8 =$

$8 \div 8 =$

(b) $808 \div 8 =$

(c) $660 \div 6 =$

(d) $777 \div 7 =$

You may use
number discs
to help you.



2 Divide.

(a) $846 \div 2 =$



(b) $936 \div 3 =$



(c) $396 \div 3 =$

(d) $963 \div 3 =$

Name: _____ Class: _____ Date: _____

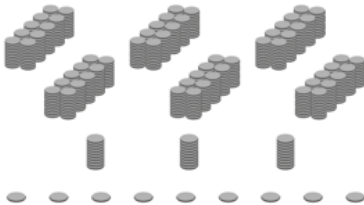

Worksheet 13
Dividing 3-Digit Numbers

- 1** Circle the discs to show the division facts.
Fill in the blanks.

(a) $246 \div 2$
=



(b) $639 \div 3$
=



(c) $804 \div 4$
=



Now have a go at worksheet 13.



2 Divide to find:

(a) $888 \div 8 =$ <input type="text"/>	(b) $696 \div 3 =$ <input type="text"/>
$800 \div 8 =$ <input type="text"/>	$600 \div 3 =$ <input type="text"/>
$80 \div 8 =$ <input type="text"/>	$90 \div 3 =$ <input type="text"/>
$8 \div 8 =$ <input type="text"/>	$6 \div 3 =$ <input type="text"/>
<input type="text"/> + <input type="text"/> + <input type="text"/> = <input type="text"/>	<input type="text"/> + <input type="text"/> + <input type="text"/> = <input type="text"/>
(c) $824 \div 2 =$ <input type="text"/>	(d) $550 \div 5 =$ <input type="text"/>
$800 \div 2 =$ <input type="text"/>	$500 \div 5 =$ <input type="text"/>
$20 \div 2 =$ <input type="text"/>	$50 \div 5 =$ <input type="text"/>
$4 \div 2 =$ <input type="text"/>	<input type="text"/> + <input type="text"/> = <input type="text"/>
<input type="text"/> + <input type="text"/> + <input type="text"/> = <input type="text"/>	

3 Divide.

(a) $248 \div 2 =$ <input type="text"/>	(b) $806 \div 2 =$ <input type="text"/>
(c) $369 \div 3 =$ <input type="text"/>	(d) $555 \div 5 =$ <input type="text"/>
(e) $848 \div 4 =$ <input type="text"/>	(f) $707 \div 7 =$ <input type="text"/>
(g) $999 \div 9 =$ <input type="text"/>	(h) $880 \div 4 =$ <input type="text"/>
(i) $660 \div 6 =$ <input type="text"/>	(j) $486 \div 2 =$ <input type="text"/>

Mastery

1. Billy has 366 ping pong balls. A box of ping pong balls has six balls in it. How many boxes does Billy need?
 2. Tanya picks 120 apples. She packs them into 5 sacks. How many apples in each sack?
 3. There are 228 books in the class library. Mrs. White packs them into 12 boxes. How many books are in each box?
- If she wants to pack 6 in each box, how many boxes would she need?

ANSWERS

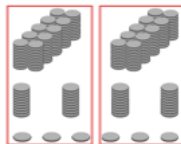
Name: _____ Class: _____ Date: _____

**Worksheet 13****Dividing 3-Digit Numbers**

- 1 Circle the discs to show the division facts.
Fill in the blanks.

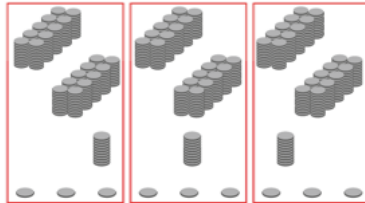
(a) $246 \div 2$

$$= \boxed{123}$$



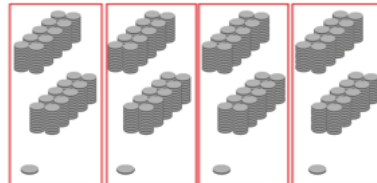
(b) $639 \div 3$

$$= \boxed{213}$$



(c) $804 \div 4$

$$= \boxed{201}$$



2 Divide to find:

(a) $888 \div 8 =$ 111	(b) $696 \div 3 =$ 232
$800 \div 8 =$ 100	$600 \div 3 =$ 200
$80 \div 8 =$ 10	$90 \div 3 =$ 30
$8 \div 8 =$ 1	$6 \div 3 =$ 2
100 + 10 + 1 = 111	200 + 30 + 2 = 232
(c) $824 \div 2 =$ 412	(d) $550 \div 5 =$ 110
$800 \div 2 =$ 400	$500 \div 5 =$ 100
$20 \div 2 =$ 10	$50 \div 5 =$ 10
$4 \div 2 =$ 2	100 + 10 = 110
400 + 10 + 2 = 412	

3 Divide.

(a) $248 \div 2 =$ 124	(b) $806 \div 2 =$ 403
(c) $369 \div 3 =$ 123	(d) $555 \div 5 =$ 111
(e) $848 \div 4 =$ 212	(f) $707 \div 7 =$ 101
(g) $999 \div 9 =$ 111	(h) $880 \div 4 =$ 220
(i) $660 \div 6 =$ 110	(j) $486 \div 2 =$ 243

Mastery

1. Billy has 366 ping pong balls. A box of ping pong balls has six balls in it. How many boxes does Billy need?

61 BOXES

2. Tanya picks 120 apples. She packs them into 5 sacks. How many apples in each sack?

24 APPLES

3. There are 228 books in the class library. Mrs. White packs them into 12 boxes. How many books are in each box?

19 BOOKS

If she wants to pack 6 in each box, how many boxes would she need?

38 BOXES