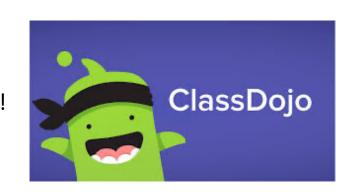
Maths Lesson Year 3

Write your date and title in your exercise book.

24.2.21

Can I use my x tables to work out related facts?

Don't forget to post a photo of your work on class dojo!





Warm Up



A bit like yesterday! Learn your 8 x tables

$$8 \times 2 =$$

$$8 \times 3 =$$

$$8 \times 6 =$$

$$8 \times 9 =$$

$$8 \times 10 =$$

Multiplication

$$8 \times 0 =$$

$$8 \times 1 =$$

$$8 \times 2 =$$

$$8 \times 3 =$$

$$8 \times 5 =$$

$$8 \times 6 =$$

$$8 \times 7 =$$

$$8 \times 8 =$$

$$8 \times 9 =$$

$$8 \times 10 =$$

$$8 \times 11 =$$

$$8 \times 12 =$$

$$10 \times 8 =$$

$$9 \times 8 =$$

$$8 \times 8 =$$

$$7 \times 8 =$$

$$6 \times 8 =$$

$$5 \times 8 =$$

$$4 \times 8 =$$

Main Lesson: More solving x by 2, 4 and 8 by doubling

Double the 5.

Double the 5 then double it again.

Double the 5, double it again, then double it again.

Now try these

Double the 30.

Double the 30 then double it again.

Double the 30, double it again, then double it again.

Answers on the next page – no peeking!

Answers

Solving x by 2, 4 and 8 by doubling Try these

•
$$2 \times 5 = 10$$

Double the 5.

•
$$4 \times 5 = 20$$

Double the 5 then double it again.

•
$$8 \times 5 = 40$$

Double the 5, double it again, then double it again.

Now try these

•
$$2 \times 30 = 60$$

Double the 30.

•
$$4 \times 30 = 120$$

Double the 30 then double it again.

•
$$8 \times 30 = 240$$

Double the 30, double it again, then double it again.

Solving ÷ by 2, 4 and 8 by halving

Try these

Halve the 40.

•
$$40 \div 4 = ____$$

Halve the 40 then halve it again.

Halve the 40, halve it again, then halve it again.

Now try these

Halve the 80.

Halve the 80 then halve it again.

Halve the 80, halve it again, then halve it again.

Answers on the next page – no peeking!

Answers

Solving ÷ by 2, 4 and 8 by halving

Try these

•
$$40 \div 2 = _{20}$$

Halve the 40.

•
$$40 \div 4 = _{10}$$

Halve the 40 then halve it again.

•
$$40 \div 8 = _{5}$$

Halve the 40, halve it again, then halve it again.

Now try these

•
$$80 \div 2 = 40$$
 Halve the 80.

•
$$80 \div 4 = 20$$
 Halve the 80 then halve it again.

•
$$80 \div 8 = 10$$
 Halve the 80, halve it again, then halve it again.

TARGET To connect the 2, 4 and 8 times tables by doubling and halving.

Example 1 30 × 8

Double 30, double and double again to multiply by 8.

 $30 \rightarrow 60 \rightarrow 120 \rightarrow 240$

Answer 240

Example 2 $1000 \div 8$ Halve 1000, halve and halve again to divide by 8. $1000 \rightarrow 500 \rightarrow 250 \rightarrow 125$

A

Double and double again to multiply each number by 4.

- **D** 3
- **5** 12
- 2 403 15
- 7 90

25

- 7
- 8 21

Halve and halve again to divide each number by 4.

- 9 40
- **B** 20
- 10 28
- 14 44
- 120
- 15 24
- 12 32
- 16 60

Use squared paper. Draw each shape half the size of the measurements shown.

D



18
4cm
4cm
8cm
8cm
8cm

B

Double, double and double again to multiply each number by 8.

- 1 8
- **2** 13
- 6 20 7 55
- 3 25 4 70
- 8 18

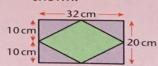
5 6

Answer 125

Halve, halve and halve again to divide each number by 8.

- 9 600
- **120**
- 10 88
- **1** 640
- 1 40
- **1** 360
- 12 480
- 16 112

Use squared paper.
Draw the flag half
the size of the
measurements
shown.



18 Now draw the flag one quarter the size of the measurements shown.

C

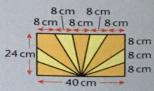
Copy and complete.

- $2 \times 8 = 248$
- $3 \times 8 = 296$
- $4 \times 8 = 280$

- $7 \qquad = 95$

Double the first answer to work out the second.

- 9 20 × 6 20 × 12
- ① 7×8 7×16
- 5 × 9 5 × 18
- 11 × 7 11 × 14
- Use squared paper.
 Draw the flag one
 quarter the size of the
 measurements shown.



Now draw the flag one eighth size.

Now have a go at these

A = Easiest

C = Medium

C = Hardest

If you have time...

Try a multiplication and division **game**.



https://www.topmarks.co.uk/maths-games/7-11-years/multiplication-and-division



Don't forget to put your work on Class Dojo!