

10.12.20

L.O: To divide

1. $32,000 \div 100 =$

2. Is 3 a multiple of 15? Why?

3. What are the prime numbers between 90 and 100

4. Which is larger

$$\frac{2}{4} \quad \text{or} \quad \frac{2}{6}$$

1. $32,000 \div 100 = 320$

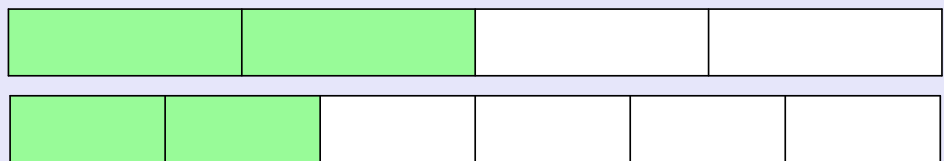
2. Is 3 a multiple of 15? Why?

yes, because $3 \times 5 = 15$

3. What are the prime numbers between 90 and 100? 97

4. Which is larger

$$\frac{2}{4}$$



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Mrs Dixon puts 2,366 eggs into boxes. Each box holds 6 eggs. How many egg boxes does Mrs Dixon need to put all the eggs into boxes?

We do

$$6 \overline{)2366}$$

$$394 \text{ } \checkmark 2$$

$$394 + \underline{1}$$

Will need 395 boxes

There are 1560 sweets in a tub.

We do

Katherine and her friends share the sweets equally.

Each person receives 5 sweets.

How many friends does Katherine have?

$$\begin{array}{r} 312 \\ 5 \overline{) 1560} \\ \underline{15} \\ 60 \\ \underline{60} \\ 0 \end{array}$$

$$312 - 1 = 311$$

Katherine has 311 friends

James hired a holiday cottage for 7 days for £4067 Ben hires the same cottage, at the same price per day, for 10 days. How much will this cost Ben?

We do

$$\begin{array}{r} 581 \\ 7 \overline{) 4067} \end{array}$$

$$1 \text{ day} = 581$$

$$10 \text{ days} = 581 \times 10$$

$$£5810$$

Leah bought a new car costing £6800. She paid a deposit of £200. Leah paid the rest of the money over 5 equal monthly payments. How much was each monthly payment?

I do

$$6800 - 200 = 6600$$

$$5 \overline{) 6600} \begin{array}{r} 1320 \\ \underline{5} \end{array}$$

She paid £1320 per month

Remaining payment after deposit $6800 - 200 = 6600$.

Monthly payment will be $6600 \div 5 = \text{£1,320 per month}$

Bags of crisps are put into multipacks of 6
The multipacks are then packed into boxes of 8
Yesterday, 6,500 bags of crisps were packed.
How many boxes of crisps were packed?

We do

$$6500 \div 6$$

Total multipacks will be $6500 \div 6 = 1083 \text{ r}2$ (1083 multipacks)

Total boxes $1083 \div 8 = 135 \text{ r}3$ (135 boxes)

135 boxes were packed

A toy costs £6. On Black Friday Sale, a shop makes £1062 from selling the toy. How many toys were sold?



You Do

$$6 \times 1 = 6$$

$$6 \times 2 = 12$$

$$6 \times 3 = 18$$

$$6 \times 4 = 24$$

$$6 \times 5 = 30$$

$$6 \times 6 = 36$$

$$6 \times 7 = 42$$

$$6 \times 8 = 48$$

$$6 \times 9 = 54$$

$$6 \times 10 = 60$$

A group of 3 friends take go on a holiday to Spain. The total cost of the holiday is £3492. The friends share the cost equally. How much does each person pay?

You Do

$$3 \times 1 = 3$$

$$3 \times 2 = 6$$

$$3 \times 3 = 9$$

$$3 \times 4 = 12$$

$$3 \times 5 = 15$$

$$3 \times 6 = 18$$

$$3 \times 7 = 21$$

$$3 \times 8 = 24$$

$$3 \times 9 = 27$$

$$3 \times 10 = 30$$

Sally is paid £9 per hour. She was paid £1,890 in for the work she did in November.

How many hours did Sally work in November?

You Do

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$9 \times 3 = 27$$

$$9 \times 4 = 36$$

$$9 \times 5 = 45$$

$$9 \times 6 = 54$$

$$9 \times 7 = 63$$

$$9 \times 8 = 72$$

$$9 \times 9 = 81$$

$$9 \times 10 = 90$$

Daisy is buying rulers.

She has £10. Each ruler costs 7p

Daisy buys as many rulers as she can.

(a) How many rulers does Daisy buy?

(b) How much change should Daisy receive?

You Do

7	x	1	=	7
7	x	2	=	14
7	x	3	=	21
7	x	4	=	28
7	x	5	=	35
7	x	6	=	42
7	x	7	=	49
7	x	8	=	56
7	x	9	=	63
7	x	10	=	70

6a. Arrange the number cards below to create a calculation which has a remainder of 4. Complete the calculation.

0 2 6

r 4

6 2

4a. Sean and Gabriel are calculating $3,987 \div 6$.



The answer is
663 r9.



The answer is
664 r3.

**Who is correct?
Explain your reasoning.**

You Do

$$6 \times 1 = 6$$

$$6 \times 2 = 12$$

$$6 \times 3 = 18$$

$$6 \times 4 = 24$$

$$6 \times 5 = 30$$

$$6 \times 6 = 36$$

$$6 \times 7 = 42$$

$$6 \times 8 = 48$$

$$6 \times 9 = 54$$

$$6 \times 10 = 60$$

8a. Freddie completes the following calculation.

$$\begin{array}{r} 1 \quad 0 \quad 1 \quad 1 \\ 9 \overline{) 9 \quad 4 \quad 5 \quad 9} \end{array}$$

Explain his mistake.
Calculate the correct answer.

9a. Cupcakes come in trays of 9. A box contains 1,125 cupcakes. How many trays are there in a box?
Show your method.

You Do

$$\begin{array}{ll} 9 \times 1 & = 9 \\ 9 \times 2 & = 18 \\ 9 \times 3 & = 27 \\ 9 \times 4 & = 36 \\ 9 \times 5 & = 45 \\ 9 \times 6 & = 54 \\ 9 \times 7 & = 63 \\ 9 \times 8 & = 72 \\ 9 \times 9 & = 81 \\ 9 \times 10 & = 90 \end{array}$$

$1 \times 1 = 1$
 $1 \times 2 = 2$
 $1 \times 3 = 3$
 $1 \times 4 = 4$
 $1 \times 5 = 5$
 $1 \times 6 = 6$
 $1 \times 7 = 7$
 $1 \times 8 = 8$
 $1 \times 9 = 9$
 $1 \times 10 = 10$

$2 \times 1 = 2$
 $2 \times 2 = 4$
 $2 \times 3 = 6$
 $2 \times 4 = 8$
 $2 \times 5 = 10$
 $2 \times 6 = 12$
 $2 \times 7 = 14$
 $2 \times 8 = 16$
 $2 \times 9 = 18$
 $2 \times 10 = 20$

$3 \times 1 = 3$
 $3 \times 2 = 6$
 $3 \times 3 = 9$
 $3 \times 4 = 12$
 $3 \times 5 = 15$
 $3 \times 6 = 18$
 $3 \times 7 = 21$
 $3 \times 8 = 24$
 $3 \times 9 = 27$
 $3 \times 10 = 30$

$4 \times 1 = 4$
 $4 \times 2 = 8$
 $4 \times 3 = 12$
 $4 \times 4 = 16$
 $4 \times 5 = 20$
 $4 \times 6 = 24$
 $4 \times 7 = 28$
 $4 \times 8 = 32$
 $4 \times 9 = 36$
 $4 \times 10 = 40$

$5 \times 1 = 5$
 $5 \times 2 = 10$
 $5 \times 3 = 15$
 $5 \times 4 = 20$
 $5 \times 5 = 25$
 $5 \times 6 = 30$
 $5 \times 7 = 35$
 $5 \times 8 = 40$
 $5 \times 9 = 45$
 $5 \times 10 = 50$

$6 \times 1 = 6$
 $6 \times 2 = 12$
 $6 \times 3 = 18$
 $6 \times 4 = 24$
 $6 \times 5 = 30$
 $6 \times 6 = 36$
 $6 \times 7 = 42$
 $6 \times 8 = 48$
 $6 \times 9 = 54$
 $6 \times 10 = 60$

$7 \times 1 = 7$
 $7 \times 2 = 14$
 $7 \times 3 = 21$
 $7 \times 4 = 28$
 $7 \times 5 = 35$
 $7 \times 6 = 42$
 $7 \times 7 = 49$
 $7 \times 8 = 56$
 $7 \times 9 = 63$
 $7 \times 10 = 70$

$8 \times 1 = 8$
 $8 \times 2 = 16$
 $8 \times 3 = 24$
 $8 \times 4 = 32$
 $8 \times 5 = 40$
 $8 \times 6 = 48$
 $8 \times 7 = 56$
 $8 \times 8 = 64$
 $8 \times 9 = 72$
 $8 \times 10 = 80$

$9 \times 1 = 9$
 $9 \times 2 = 18$
 $9 \times 3 = 27$
 $9 \times 4 = 36$
 $9 \times 5 = 45$
 $9 \times 6 = 54$
 $9 \times 7 = 63$
 $9 \times 8 = 72$
 $9 \times 9 = 81$
 $9 \times 10 = 90$

$10 \times 1 = 10$
 $10 \times 2 = 20$
 $10 \times 3 = 30$
 $10 \times 4 = 40$
 $10 \times 5 = 50$
 $10 \times 6 = 60$
 $10 \times 7 = 70$
 $10 \times 8 = 80$
 $10 \times 9 = 90$
 $10 \times 10 = 100$