Short division

Copy these into your book and solve them using the bus stop method.

1. $525 \div 5 =$

2. $219 \div 3 =$

3. $126 \div 2 =$

4. $328 \div 4 =$

5. $276 \div 3 =$
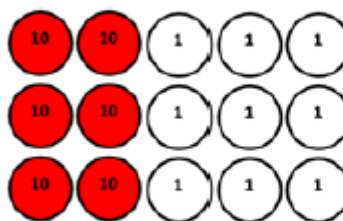
6. $729 \div 9 =$

7. $648 \div 8 =$

8. $436 \div 4 =$

9. $848 \div 8 =$

10. $5455 \div 5 =$

In your books draw how one of these divisions work. See the example below.

$69 \div 3 = 23$

Check using multiplication inverse:
$23 \times 3 = 69$

Short division

Copy these into your book and solve them using the bus stop method.

1. $315 \div 5 =$

2. $288 \div 3 =$

3. $684 \div 2 =$

4. $528 \div 4 =$

5. $717 \div 3 =$

6. $472 \div 4 =$

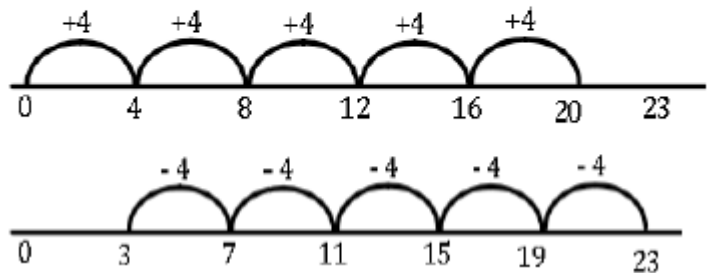7. $968 \div 8 =$

8. $904 \div 2 =$

9. $765 \div 5 =$

10. $895 \div 5 =$

In your books draw how one of these divisions work. See the example below as one example. These may not have remainders.

Repeated addition and subtraction along a number line.

$23 \div 4 = 5\,r3$

Reasoning and Problem Solving

A farmer had 33 eggs. He put them into boxes of 6. How many **full** boxes did he have? How many eggs did he have left over?

If he put them into boxes of 12, how many would be left over now?

Use each number in the 4x table. Make it with counters then share it into 3 groups. Write the remainder each time. What patterns do you notice?

There are 75 children at sports day. If they were divided into 3 teams, 4 teams, 5 teams… etc. how many children would be left out each time?

Short division

Copy these into your book and solve them using the bus stop method.

1. $472 \div 4 =$

2. $968 \div 8 =$

3. $904 \div 2 =$

4. $765 \div 5 =$

5. $895 \div 5 =$

6. $8{,}792 \div 7 =$

7. $9{,}180 \div 6 =$

8. $11{,}562 \div 3 =$

9. $32{,}832 \div 9 =$

10. $28{,}480 \div 8 =$

Reasoning and Problem Solving

A school ordered 432 pencils. They were put into packs of 5. How many packs were made? How many pencils were left over?

Robbie has 150 stickers. He kept 12 and shared the rest equally between 6 friends. How many stickers did each of his friends get?

436 children need to be put into teams for sports day.

How many different ways could the children be grouped equally?

How many divisions can you make which have a remainder of 3? What patterns do you notice?

Which numbers between 100 and 150 have a remainder of 1 when they are divided by 2, 3, 4, 5, and 6?

Short division

Copy these into your book and solve them using the bus stop method.

1. $8,792 \div 7 =$

2. $9,180 \div 6 =$

3. $11,562 \div 3 =$

4. $32,832 \div 9 =$

5. $28,480 \div 8 =$

6. $17,622 \div 3 =$

7. $67,445 \div 7 =$

8. $34,605 \div 5 =$

9. $59,190 \div 6 =$

10. $33,388 \div 4 =$

Extra Challenge: Divisions with remainders. Attempt only if you are feeling very confident.

6 people won £8724 on the lottery. They spent £650 on a party to celebrate then shared the rest. How much did they each receive?

How many divisions can you create which leave a remainder of 4/5, 2/3…etc?

Examples:

Showing remainder as a whole number

$$858\,r\,2$$
$$3\overline{)2\,^{2}5\,^{1}7\,^{2}6}$$

Answer: 858 remainder 2

Showing remainder as a fraction

$$858\,r\,2$$
$$3\overline{)2\,^{2}5\,^{1}7\,^{2}6}$$

Answer: $858\frac{2}{3}$