

01.04.20 Y4 Maths – bus stop division

Division with an exchange:

$$642 \div 3 = 214$$

H	T	O
100 100 100 100 100 100	10 10 10 10	1 1 1 1 1 1 1 1 1 1 1 1

$$\begin{array}{r} 214 \\ 3 \overline{) 642} \end{array}$$

1. With the 6 hundreds, we can make 2 groups of 3 so write 2 above the 6 on the bus stop.
2. With the 4 tens, we can make 1 group of 3 so write 1 above the 4 on the bus stop.
3. There is a ten left over so exchange it for 10 ones. Show on the bus stop that we now have 12 ones.
4. With the 12 ones, we can make 4 groups of 3 so write 4 above the 2 on the bus stop.
5. $642 \div 3 = 214$

Division with a remainder:

$$486 \div 4 = 121 \text{ r } 2$$

H	T	O
100 100 100 100	10 10 10 10 10 10 10 10	1 1 1 1 1 1 1 1

$$\begin{array}{r} 121 \text{ r } 2 \\ 4 \overline{) 486} \end{array}$$

1. With the 4 hundreds, we can make 1 group of 4 so write 1 above the 4 on the bus stop.
2. With the 8 tens, we can make 2 groups of 4 so write 2 above the 8 on the bus stop.
3. With the 6 ones, we can make 1 group of 4 so write 1 above the 6 on the bus stop.
4. There are 2 ones left over so we have 'remainder 2' which we write as 'r 2'.
5. $486 \div 4 = 121 \text{ r } 2$

1. $948 \div 3 =$
2. $496 \div 2 =$
3. $655 \div 5 =$
4. $487 \div 4 =$
5. $697 \div 3 =$
6. $559 \div 5 =$
7. $673 \div 3 =$
8. $898 \div 4 =$
9. $725 \div 3 =$

Challenge 1:

Which one's correct?

Find the correct calculation. Spot the mistakes.

$$384 \div 3$$

$$\begin{array}{r} 121 \\ 3 \overline{)384} \end{array}$$

$$\begin{array}{r} 128 \\ 3 \overline{)384} \end{array}$$

$$\begin{array}{r} 124 \\ 3 \overline{)384} \end{array}$$

H	T	O
100	10 10	1 1
100	10 10	1 1
100	10 10	
	10 10	

Challenge 2:

$$396 \div 3$$

$$642 \div 3$$

$$527 \div 4$$

Which of these divisions is the easiest and which is the hardest? Explain.