Can I divide three and four digit numbers by a single digit?

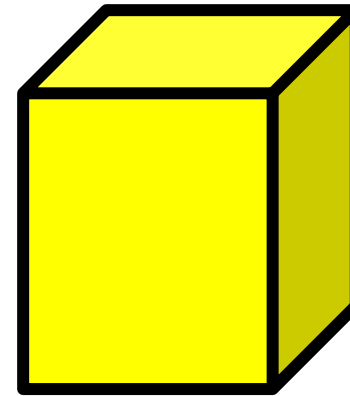# Fast 5

47 x 11 =

400 ÷ 20 =

1000 - [ ] = 369

- 21 + 48 =

Number of edges on a cube

Fast 5

47 x 11 = 517

400 ÷ 20 = 20

1000 - [631] = 369

- 21 + 48 = 27
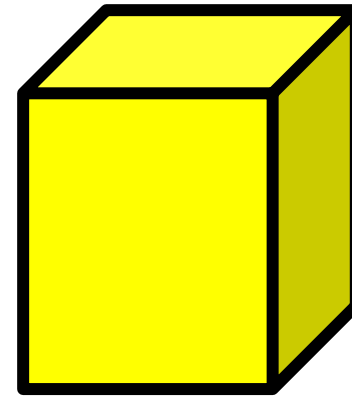
Number of edges on a cube 12

$$157 \div 3 = 157$$

$$
\begin{array}{r}
157 \\
3{\overline{\smash{\big)}\,4\,{}^{1}7\,{}^{2}1}}
\end{array}
$$

```
    1   4   4    Remainder 1
  ┌─────────────
3 │ 4  ¹3  ¹6
```

As previously, we have divided the number but
there is a remainder that we cannot divide.
What does this mean as mathematicians?

	1	4	4	Remainder 1			
3	4	¹3	¹6				

If we are building trikes, we have 144 trikes and one wheel left. Can we have a one wheeled trike?

	1	4	4	Remainder 1		
3	4	^{1}3	^{1}6			

If we are building trikes, we have 144 trikes and one wheel left. Can we have a one wheeled trike?

No! so the answer is 144. We round down.

	1	4	4	Remainder 1			
3	4	¹3	¹6				

If we were taking Year 5 on a trip to the dry ski centre and we had 144 cars, could we leave one child behind?

1	4	4	Remainder 1		
3	4	¹3	¹6		

If we were taking Year 5 on a trip to the dry ski centre and we had 144 cars, could we leave one child behind?

No! so the answer is 145. We round up.

I have a bottle of medicine for my cat.
The bottle contains 864 ml of medicine.
How many doses can my cat have from this bottle
if a dose is 5 ml?

I have a bottle of medicine for my cat.
The bottle contains 864 ml of medicine.
How many doses can my cat have from this bottle
if a dose is 5 ml?

$$\begin{array}{r} 1\ 7\ 2\ r4 \\ 5\overline{)8\ ^36\ 1^4} \end{array}$$

Using the calculation, what is the answer to the question?

I have a bottle of medicine for my cat.
The bottle contains 864 ml of medicine.
How many doses can my cat have from this bottle
if a dose is 5 ml?

$$5 \overline{) 8\,{}^{3}6\,\,1{}^{1}4} = 172 \text{ r}4$$

You can't have a remainder of a dose. You can't give a dose that is not complete. The answer has to be rounded down. 172 doses.

A farmer has 378 apples. If he has to share them between three different supermarkets, how many apples will each supermarket get?

A farmer has 378 apples. If he has to share them between three different supermarkets, how many apples will each supermarket get?

$$3 \overline{)3\ 7^1 8}$$ = 126

Using the calculation, what is the answer to the question?

A farmer has 378 apples. If he has to share them between three different supermarkets, how many apples will each supermarket get?

$$3 \overline{)3\ 7\ ^18} = 126$$

No remainder, so the answer is 126 apples.

I can write 6 words on a page. How many pages do I need to write a story of 735 words?

I can write 6 words on a page. How many pages do I need to write a story of 735 words?

$$6 \overline{) 7\ ^{1}3\ ^{1}5} = 122\ r3$$

Using the calculation, what is the answer to the question?

I can write 6 words on a page. How many pages do I need to write a story of 735 words?

$$6\overline{)7\ 13\ 15} = 122\ r\ 3$$

You can't have a remainder of a page. If you have fewer pages you don't have the whole story. We round up - 123 pages.