## Mathelpers

## Divide by 2 - Digit Divisors

Divide. $\quad 5,603 \div 30=n$

## STEP :

Decide where to place the first digit
in the quotient. Are there enough
thousands? $\mathrm{NO} ; 5$ < 30. Are there
enough hundreds? YES; $56>30$.
The first digit goes in the hundreds place.

## STEP 2:

Divide the hundreds. $\quad 3 0 \longdiv { 5 6 }$
Write the $l$ in the hundreds place.
Multiply. $30 \times 1$
Subtract. 56-30
Compare. 16 < 30

STEP 3:
Divide the tens.
Write the 5 in the tens place.
$3 0 \longdiv { 5 , 6 0 3 }$
30
16

| Multiply. $30 \times 5$ | 160 |
| :--- | :--- |
| Subtract. $160-150$ | $\underline{150}$ |
| Compare. $10<30$ | 10 |

## STEP 4:

Divide the ones. $3 0 \longdiv { 1 0 3 }$
Write the 3 in the ones place.
153
$3 0 \longdiv { 5 , 6 0 3 }$
30
Multiply. $30 \times 3 \quad 160$
Subtract. 103-90
150
Compare. $13<30$
103

$$
90
$$

13
So, $5,603 \div 30=153 r 13$

## Mathelpers

Bright Video Shop received a shipment of 832 video cassettes. The video cassettes were packaged in 32 cartons. Each carton held the same number of cassettes. How many video cassettes were in each carton?

STEP I: $832 \div 32$

Decide where to place the first digit.
$3 2 \longdiv { 8 3 2 }$
Are there enough hundreds?
NO; 8 < 32.
Place the first digit in the tens place.

## STEP 2:

Divide the 83 tens.
Multiply. $32 \times 2$
Subtract. 83-64 $3 2 \longdiv { 8 3 2 }$

Compare. 19 < 32 $\underline{64}$ 19

## STEP 3:

Divide the 192 ones.
Multiply $32 \times 6$ $3 2 \longdiv { 8 3 2 }$
Subtract 192-192 $\underline{64}$

So, each carton held 26 video cassettes.

You can use multiplication to check your answer. Multiply the divisor by the quotient. Add any remainder.
$32 \times 26=832$. The answer checks.

## Examples:

A- Estimate the quotient.
I) $3 7 \longdiv { 2 4 2 }$
=
$4 0 \longdiv { 2 4 0 }$
$=$
6
2)158 $\div 84$
$=$
$160+80$
$=$
8

## Mathelpers

## My Real Life

Ali watches TV for 28 hours every week. How many hours does he watch per day?


$$
28+7=4 \text { hours per day }
$$

