MATHS FLIP

Please watch the video for your class. You will be asked questions on the topic in the upcoming lessons.

Year 3: Y3 Spring Block 2 TS3 Measure in centimetres and millimetres on Vimeo

Year 4: Y4 Spring Block 2 TS2 Equivalent lengths (kilometres and metres) on Vimeo

MATHS HW
Y3&4

Divide a 2-digit number by a 1-digit number – with remainders

White Rose Maths

1 Mo has these lolly sticks.

a) He uses them to make squares.

How many squares can Mo make?

Complete the sentences.

There are 17 lolly sticks.

There are ☐ groups of 4

There is ☐ lolly stick remaining.

$17 \div 4 =$ ☐ remainder ☐

Mo can make ☐ squares.
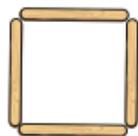
b) Mo now uses the lolly sticks to make triangles.

How many triangles can Mo make?

Complete the sentences.

There are 17 lolly sticks.

There are ☐ groups of 3

There are ☐ lolly sticks remaining.

$17 \div 3 =$ ☐ remainder ☐

Mo can make ☐ triangles.

c) Finally, Mo uses the lolly sticks to make pentagons.

How many pentagons can Mo make?

Complete the sentences.

There are 17 lolly sticks.

There are ☐ groups of 5

There are ☐ lolly sticks remaining.

$17 \div 5 =$ ☐ remainder ☐

Mo can make ☐ pentagons.
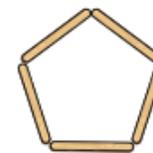
2 Use repeated subtraction to complete the divisions.

Use the number lines to help you.

a) $23 \div 4 =$ ☐ remainder ☐

– 4   – 4

0   15   19   23

b) $23 \div 5 =$ ☐ remainder ☐

– 5

0   18   23

c) $23 \div 3 =$ ☐ remainder ☐

0   23

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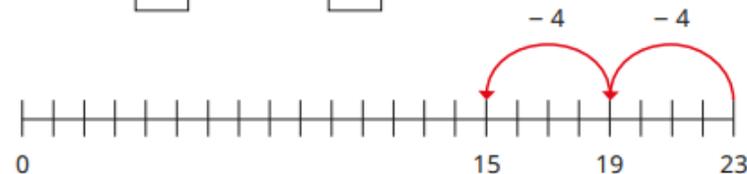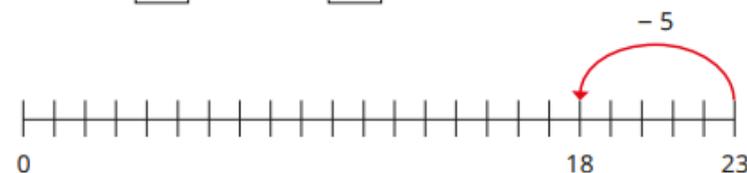
3 Eva works out 34 ÷ 4
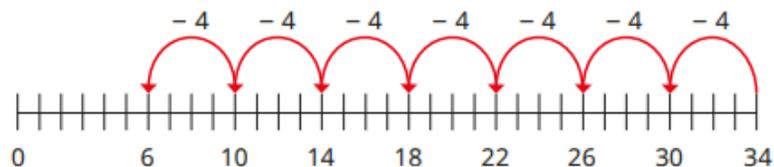
There is a remainder of 6

Is Eva correct? _____

How do you know?

4 Use place value counters and a place value chart to work out the divisions.

a) 87 ÷ 4 = ☐ remainder ☐

b) 77 ÷ 3 = ☐ remainder ☐

c) 74 ÷ 5 = ☐ remainder ☐

5 How do you know there is no remainder when 75 is divided by 5?

_____

Without doing the division, what is the remainder when 76 is divided by 5? ☐

6 Complete the calculations.

a) 29 ÷ ☐ = 4 remainder 5

c) 29 ÷ ☐ = 14 remainder 1

b) 29 ÷ ☐ = 4 remainder 1

d) 29 ÷ ☐ = 9 remainder 2

7 Teddy has fewer than 60 marbles but more than 40

When he shares them equally into 3 pots he has no remainders.

When he shares them equally into 4 pots he has remainder 3

When he shares them equally into 5 pots he has remainder 1

How many marbles could Teddy have?

☐

Divide a 2-digit number by a 1-digit number (2)

1 Whitney is using a place value chart to work out $49 \div 4$

Tens	Ones
10	1 1
10	1 1
10	1 1
10	1 1

1

a) Talk about Whitney's method with a partner.

b) Why is there one counter left over?

_____

_____

c) Complete the division.

$49 \div 4 =$ ☐

d) Use place value counters to complete the divisions.

$50 \div 4 =$ ☐ $51 \div 4 =$ ☐

What do you notice?

2 Complete the divisions.

a) $47 \div 3 =$ ☐   e) $49 \div 6 =$ ☐

b) $26 \div 5 =$ ☐   f) $47 \div 4 =$ ☐

c) $89 \div 4 =$ ☐   g) $74 \div 3 =$ ☐

d) $32 \div 5 =$ ☐   h) $81 \div 7 =$ ☐

3 Complete the divisions.

a) $36 \div 4 =$ ☐   c) $45 \div 3 =$ ☐

$37 \div 4 =$ ☐ $46 \div 3 =$ ☐

$38 \div 4 =$ ☐ $47 \div 3 =$ ☐

$39 \div 4 =$ ☐ $48 \div 3 =$ ☐

$40 \div 4 =$ ☐ $49 \div 3 =$ ☐

b) $70 \div 5 =$ ☐   d) $92 \div 4 =$ ☐

$71 \div 5 =$ ☐ $91 \div 4 =$ ☐

$72 \div 5 =$ ☐ $90 \div 4 =$ ☐

$73 \div 5 =$ ☐ $89 \div 4 =$ ☐

$74 \div 5 =$ ☐ $88 \div 4 =$ ☐

4 Dora has been working out some divisions.

$72 \div 4 = 18$
$73 \div 4 = 18 \text{ r1}$
$74 \div 4 = 18 \text{ r2}$
$75 \div 4 = 18 \text{ r3}$

I know without working it out that $76 \div 4$ must be 18 r4

a) Why does Dora think this?

_____

_____

b) Explain why Dora is wrong.

_____

_____

_____

5 Eggs come in boxes of 6

Annie has 75 eggs.

She wants to know how many boxes she can fill.

a) Complete the division to work it out.

☐ ÷ ☐ = ☐ r ☐

b) What does the remainder represent?
Talk about it with a partner.

c) Complete the sentence.

Annie can fill ☐ boxes, with ☐ eggs left over.

6 A box can hold 6 eggs.

Teddy has 75 eggs.

He wants to put all the eggs into boxes.

a) How many boxes will Teddy need?

☐

b) How many more eggs does Teddy need, so that all of his boxes are full?

☐

7 Jack has these bulbs.

Daffodils 49

Tulips 63

Crocuses 98

Equal numbers of each bulb are put into 4 tubs.

a) How many of each bulb will be in each tub?

daffodils ☐   tulips ☐   crocuses ☐

b) How many of each bulb will be left over?

daffodils ☐   tulips ☐   crocuses ☐

c) How many tubs could Jack use so that there are no bulbs left over?