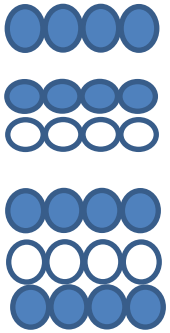
Hampshire Mathematics Team
Multiplication templates

One, ten, five derive…

4x Table

Multiplication and Division Facts



4

4+4=

4+4+4=

4+4+4+4=

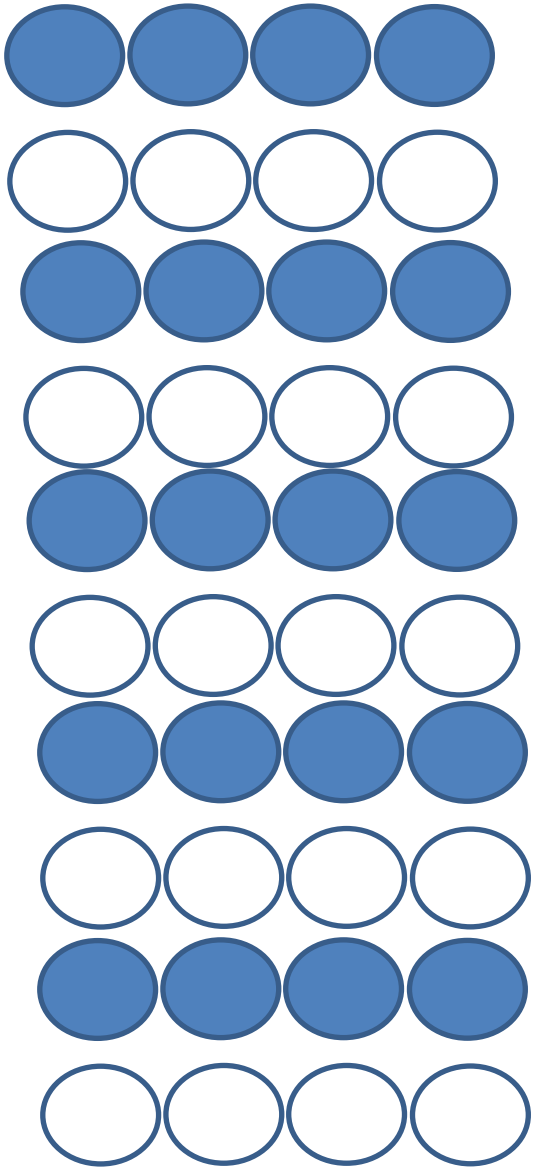
4+4+4+4+4=

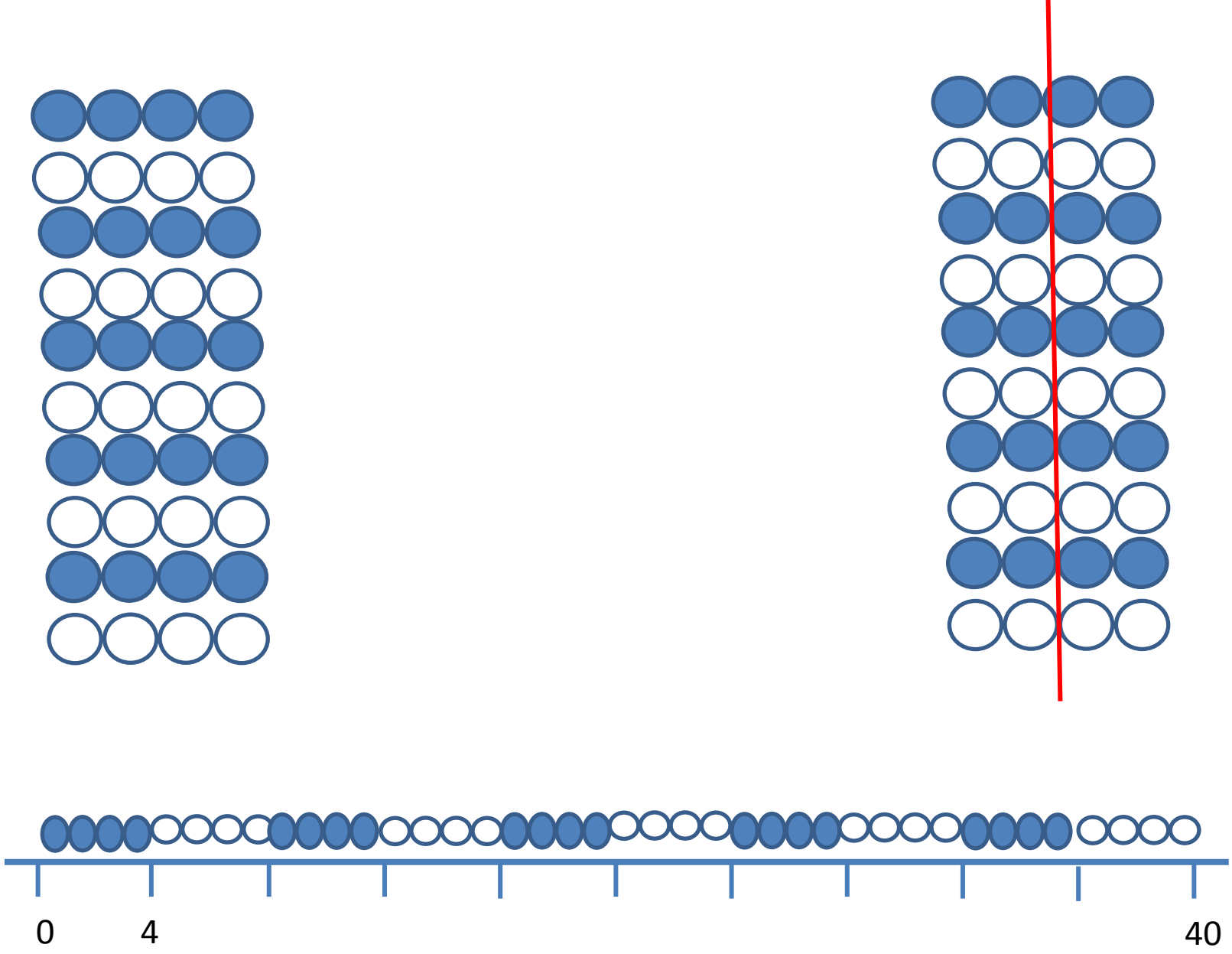
4+4+4+4+4+4=

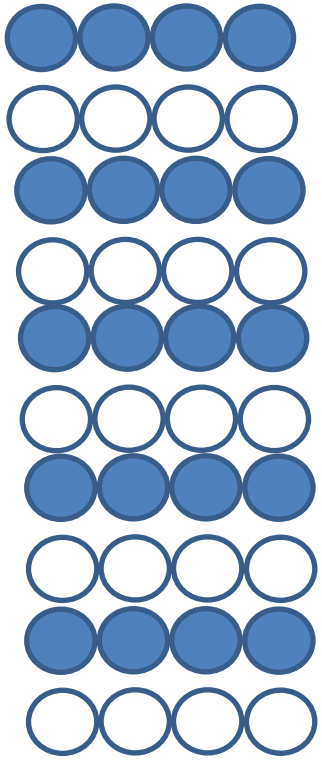
4+4+4+4+4+4+4=

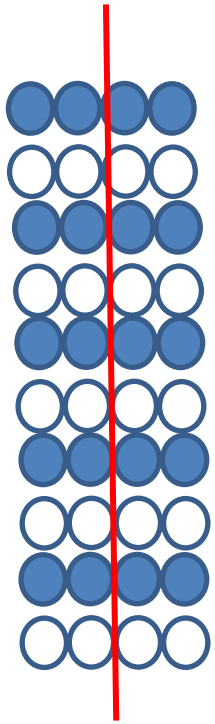
4+4+4+4+4+4+4+4=

4+4+4+4+4+4+4+4+4=

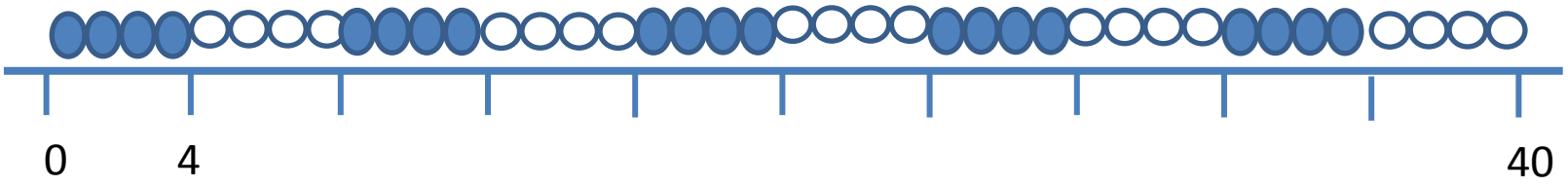



0
4
40

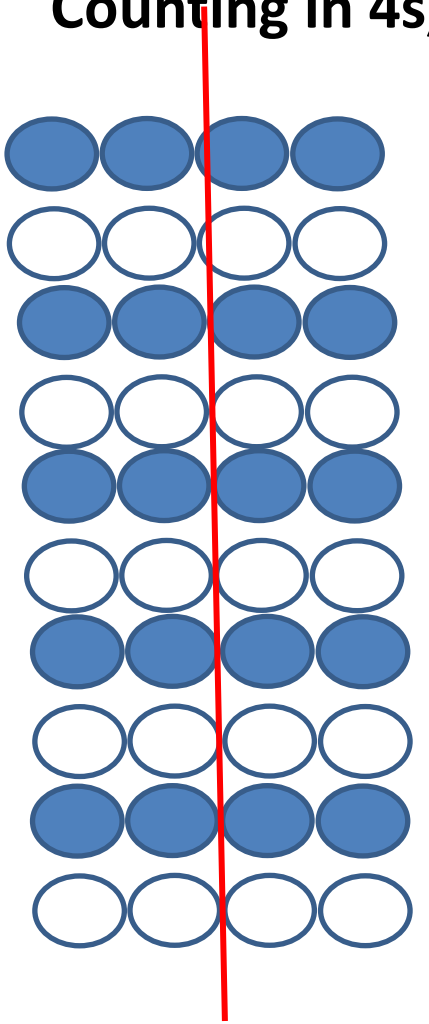




4 X1=
4 X2=
4 X3=
4 X4=
4 X5=
4 X6=
4 X7=
4 X8=
4X9=
4 X10=



Counting in 4s, Multiples of 4



4

4+4=

4+4+4=

4+4+4+4=

4+4+4+4+4=

4+4+4+4+4+4=

4+4+4+4+4+4+4=

4+4+4+4+4+4+4+4=

4+4+4+4+4+4+4+4+4=

4+4+4+4+4+4+4+4+4+4=

4 X1=

4 X2=

4 X3=

4 X4=

4 X5=

4 X6=

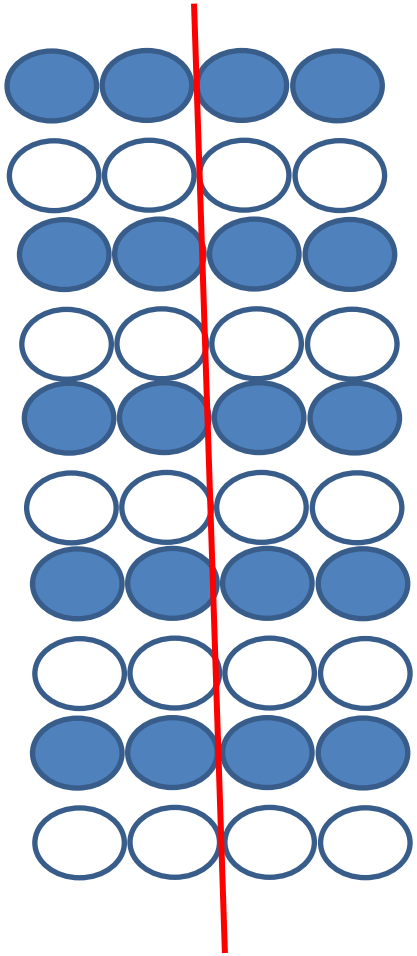
4 X7=

4 X8=

4X9=

4 X10=

Multiples of 4



4 X1=

4 X2=

4 X3=

4 X4=

4 X5=

4 X6=

4 X7=

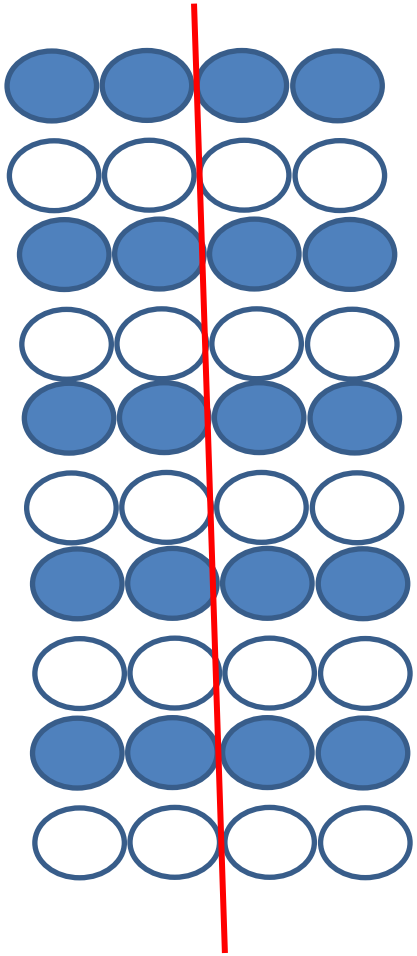
4 X8=

4X9=

4 X10=

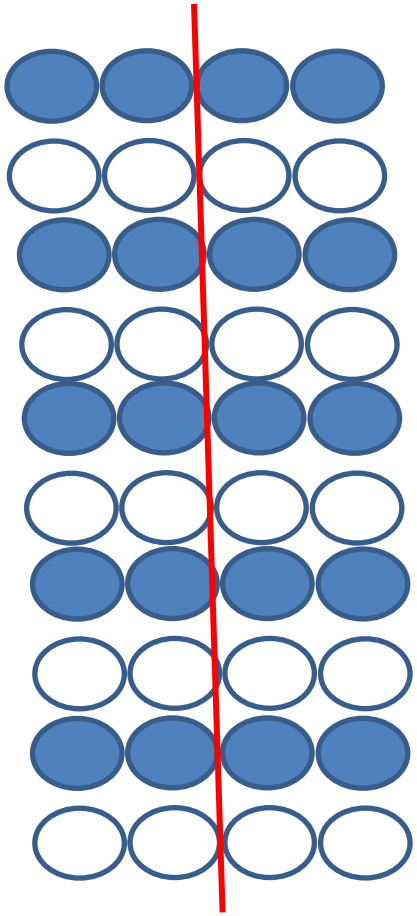
What is your favourite order for working out these linked facts?

How many groups of 4 in multiples of 4…?



4	4 ÷ 4 =
8	8 ÷ 4 =
12	12 ÷ 4 =
16	16 ÷ 4 =
20	20 ÷ 4 =
24	24 ÷ 4 =
28	28 ÷ 4 =
32	32 ÷ 4 =
36	36 ÷ 4 =
40	40 ÷ 4 =

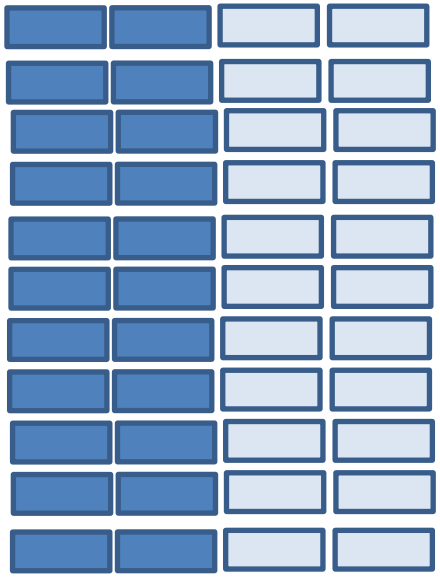
How many groups of 4 in any number…?

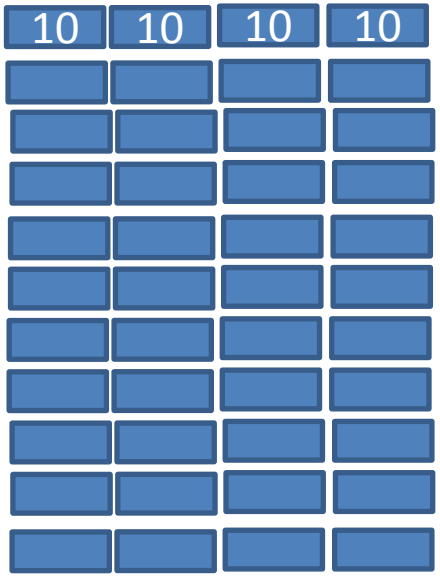


6
11
17
24
26
33
39
43
48
52

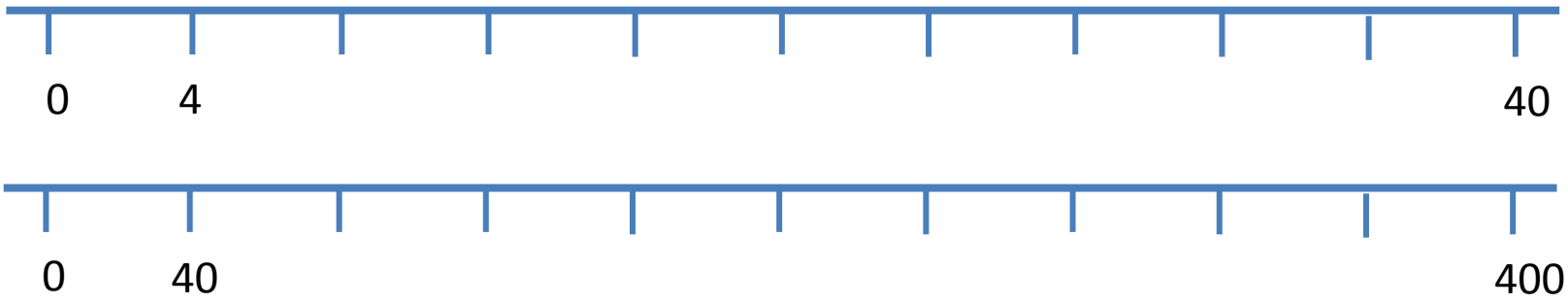
6 ÷ 4=
11 ÷ 4=
17 ÷ 4=
24 ÷ 4=
26 ÷4=
33 ÷ 4=
39 ÷ 4=
43 ÷ 4=
48 ÷4=
52 ÷4=

Multiples of 4, 40





4 X1=	40 x1=
4 X2=	40 x2=
4 X3=	40 x3=
4 X4=	40 x4=
4 X5=	40 x5=
4 X6=	40 x6=
4 X7=	40 X7=
4 X8=	40 X8=
4X9=	40 X9=
4 X10=	40X10=



Dividing into groups of 4, 40

12 ÷ 4=
24 ÷ 4=

4÷ 4=
8 ÷ 4=

20 ÷ 4=
40÷ 4=

16÷ 4=
36 ÷ 4=

28÷ 4=
32 ÷ 4=

120 ÷ 40=
240 ÷ 40=

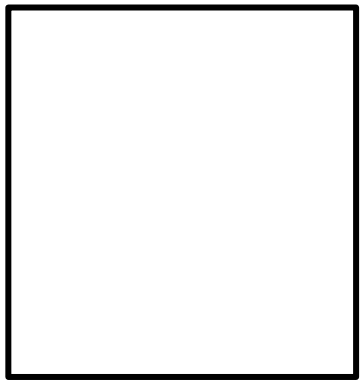
40 ÷ 40=
80 ÷ 40=

200 ÷ 40=
400 ÷ 40=

160÷ 40=
360 ÷ 40=

280 ÷ 40=
320÷ 40=

Array



Bar Model:

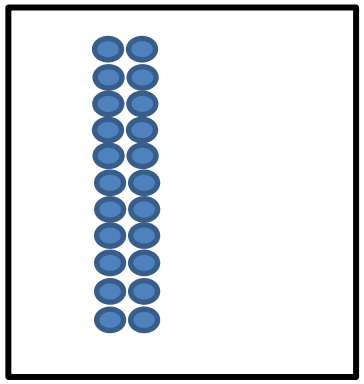
Number line:

Bar model:

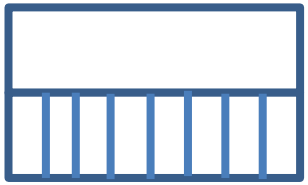
Number line:

4x7=

Array

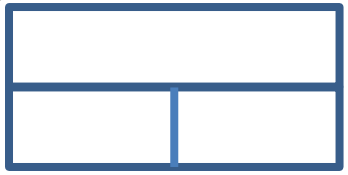


Bar Model:



Number line:

Bar model:



Number line:

200x8=1600

800x2=1600

0.2x 8=1.6

0.8x2=1.6

2/10 x8=16/10= 1 6/10

8/10 x2=16/10= 1 6/10

20x 8=160

80x2=160

8x2=16

Eg 2x8= 16

16 ÷2=8

16 ÷8=2

160 ÷2=80

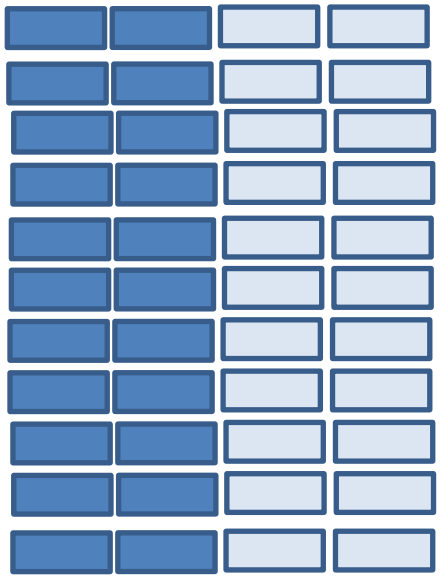
160 ÷8=20

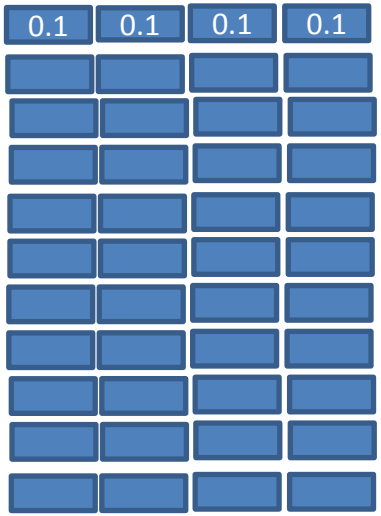
160 ÷20=8

160 ÷80=2

Which sets of related facts would be appropriate for **Y3**, **Y4**, **Y5**?
Could pupils adjust the number lines, bar models to match?
Links to fractions?

Multiples of 4, 0.4

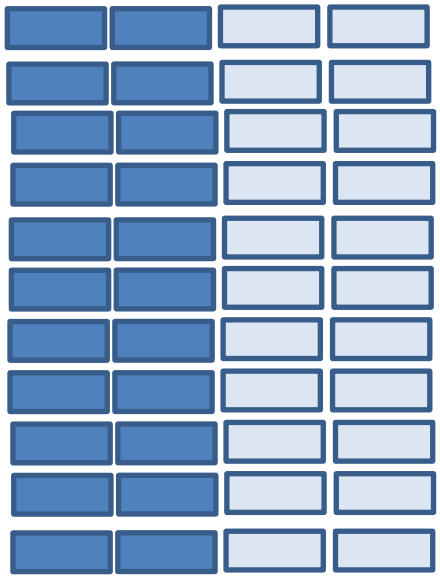


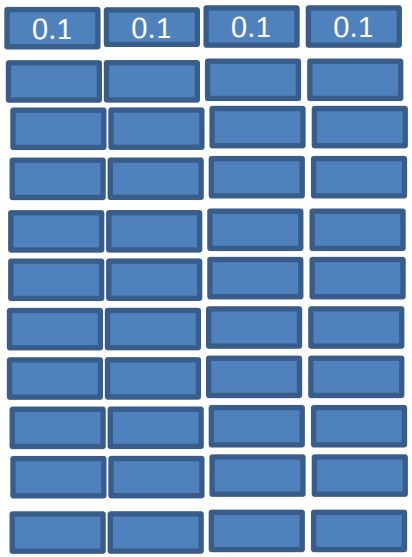


4 X1=
4 X2=
4 X3=
4 X4=
4 X5=
4 X6=
4 X7=
4 X8=
4X9=
4 X10=

0.4 x1=
0.4 x2=
0.4 x3=
0.4 x4=
0.4 x5=
0.4 x6=
0.4 X7=
0.4 X8=
0.4 X9=
0.4 X10=

Multiples of 4/10, 0.4





4/10 X1=
4/10 X2=
4/10 X3=
4/10 X4=
4/10 X5=
4/10 X6= 24/10= $2_{4/10}$
4/10 X7=
4/10 X8=
4/10 X9=
4/10 X10=

0.4 x1=
0.4 x2=
0.4 x3=
0.4 x4=
0.4 x5=
0.4 x6=
0.4 X7=
0.4 X8=
0.4 X9=
0.4 X10=

Dividing into groups of 0.4, 4

1.2 ÷ 0.4=
2.4÷ 0.4=

0.4 ÷ 0.4=
40 ÷ 0.4 =

2 ÷ 0.4=
4 ÷ 0.4=

1.6÷ 0.4=
3.6 ÷ 0.4=

2.8÷ 0.4=
3.2 ÷ 0.4=

12 ÷ 4=
24 ÷ 4=

4÷ 4=
8 ÷ 4=

20 ÷ 4=
40÷ 4=

16÷ 4=
36 ÷ 4=

28÷ 4=
32 ÷ 4=

Dividing into groups of 0.4, 4, 40,

1.2 ÷ 0.4=
2.4÷ 0.4=

0.4 ÷ 0.4=
40 ÷ 0.4 =

2 ÷ 0.4=
4 ÷ 0.4=

1.6÷ 0.4=
3.6 ÷ 0.4=

2.8÷ 0.4=
3.2 ÷ 0.4=

12 ÷ 4=
24 ÷ 4=

4÷ 4=
8 ÷ 4=

20 ÷ 4=
40÷ 4=

16÷ 4=
36 ÷ 4=

28÷ 4=
32 ÷ 4=

120 ÷ 40=
240 ÷ 40=

40 ÷ 40=
80 ÷ 40=

200 ÷ 40=
400 ÷ 40=

160÷ 40=
360 ÷ 40=

280 ÷ 40=
320÷ 40=