Hampshire Mathematics Team
Multiplication templates

One, ten, five derive…

2 x table

Multiplication and Division Facts

2

2+2=

2+2+2=

2+2+2+2=

2+2+2+2+2=

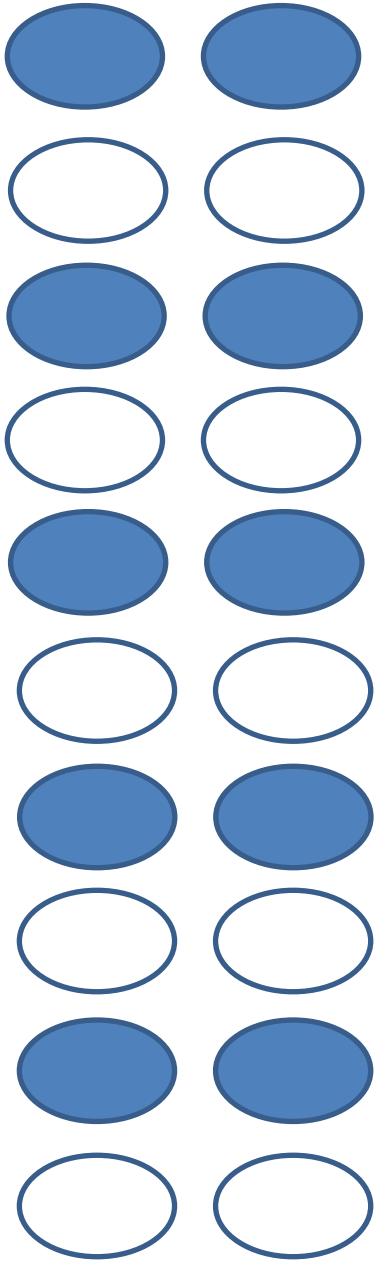
2+2+2+2+2+2=

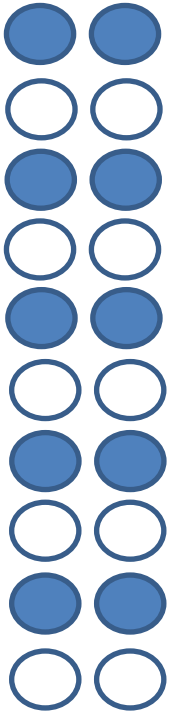
2+2+2+2+2+2+2=

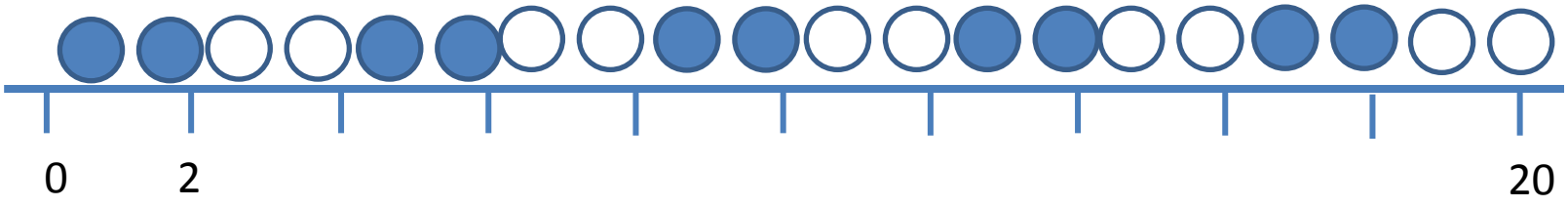
2+2+2+2+2+2+2+2=

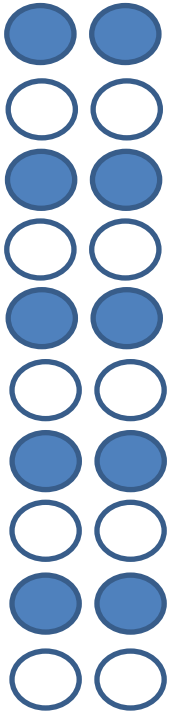
2+2+2+2+2+2+2+2+2=

2+2+2+2+2+2+2+2+2+2=

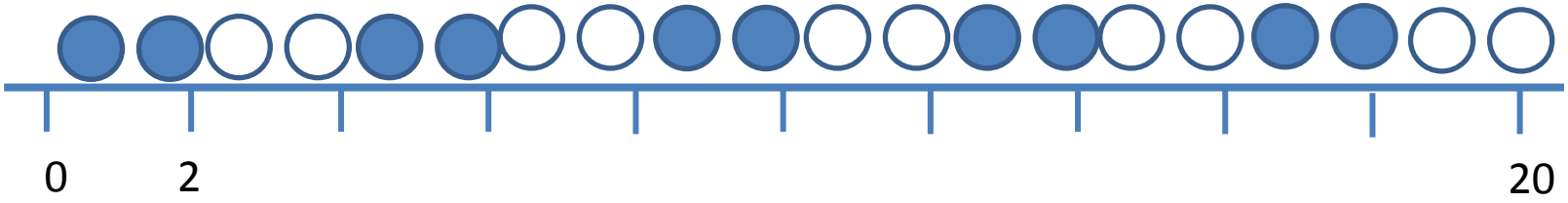




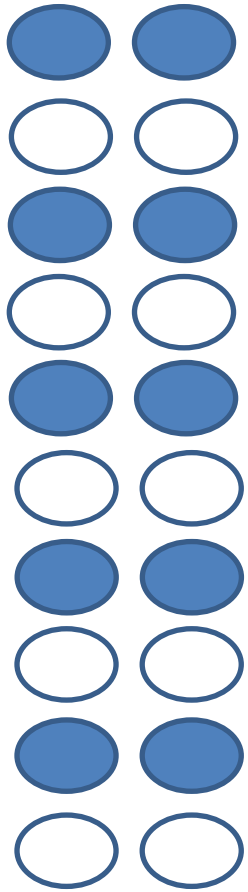

0
2
20



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



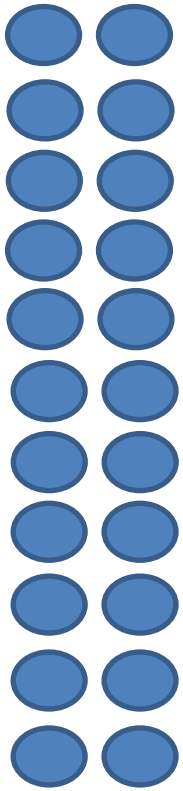
Counting in 2s, Multiples of 2



2	2 X1=
2+2=	2 X2=
2+2+2=	2 X3=
2+2+2+2=	2 X4=
2+2+2+2+2=	2 X5=
2+2+2+2+2+2=	2 X6=
2+2+2+2+2+2+2=	2 X7=
2+2+2+2+2+2+2+2=	2 X8=
2+2+2+2+2+2+2+2+2=	2 X9=
2+2+2+2+2+2+2+2+2+2=	2 X10=

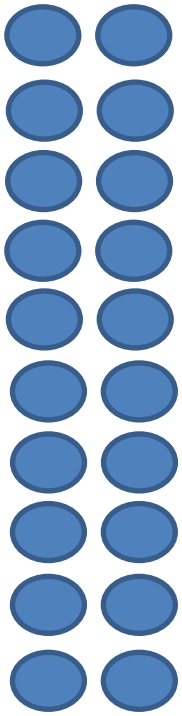
Multiples of 2

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



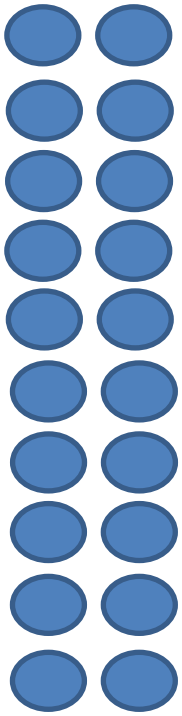
2 X1=
2 X2=
2 X3=
2 X4=
2 X5=
2 X6=
2 X7=
2 X8=
2 X9=
2 X10=

How many groups of 2 in multiples of 2…?



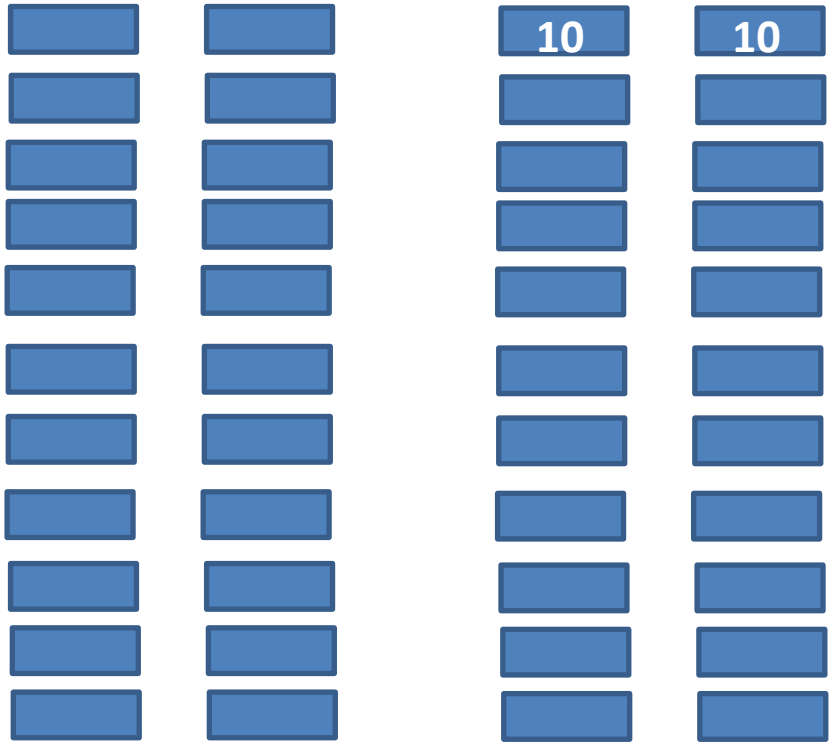
2	2 ÷ 2 =
4	4 ÷ 2 =
6	6 ÷ 2 =
8	8 ÷ 2 =
10	10 ÷ 2 =
12	12 ÷ 2 =
14	14 ÷ 2 =
16	16 ÷ 2 =
18	18 ÷ 2 =
20	20 ÷ 2 =

How many groups of 2 in any number…?



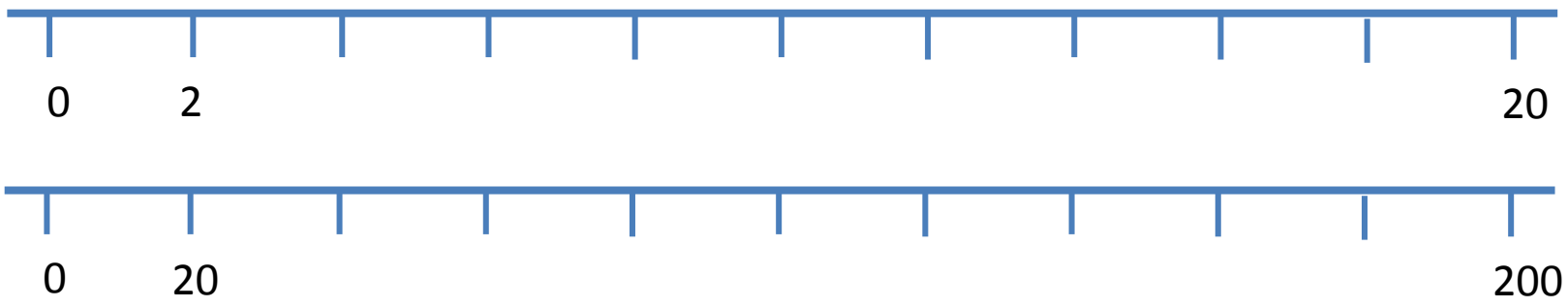
3	3 ÷ 2 =
5	5 ÷ 2 =
7	7 ÷ 2 =
9	9 ÷ 2 =
11	11 ÷ 2 =
13	13 ÷ 2 =
15	15 ÷ 2 =
17	17 ÷ 2 =
19	19 ÷ 2 =
21	21 ÷ 2 =

Multiples of 2, 20



2 X1=
2 X2=
2 X3=
2 X4=
2 X5=
2 X6=
2 X7=
2 X8=
2 X9=
2X10=

20 x1=
20 x2=
20 x3=
20 x4=
20 x5=
20 x6=
20 X7=
20 X8=
20 X9=
20X10=



Dividing into groups of 2, 20

10 ÷ 2=
20 ÷ 2=

2 ÷ 2=
4 ÷ 2=

8 ÷ 2=
16 ÷ 2=

6÷ 2=
12 ÷ 2=

14÷ 2=
18 ÷ 2=

100 ÷ 20=
200 ÷ 20=

20 ÷ 20=
40 ÷ 20=

80 ÷ 20=
160 ÷ 20=

60÷ 20=
120 ÷ 20=

140÷ 20=
180 ÷ 20=

Array

Bar Model:

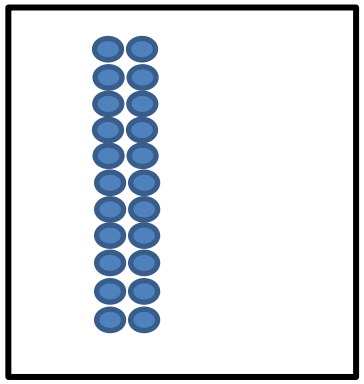
Number line:

Bar model:

Number line:

2x8=

Array



200x8=1600

800x2=1600

0.2x 8=1.6

0.8x2=1.6

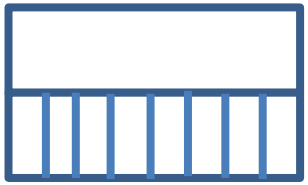
2/10 x8=16/10= 1 6/10

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

20x 8=160

80x2=160

Bar Model:



8x2=16

2x8= 16

16 ÷2=8

16 ÷8=2

160 ÷2=80

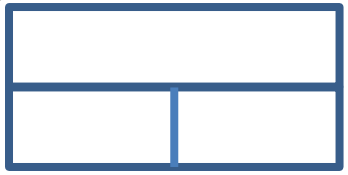
160 ÷8=20

160 ÷20=8

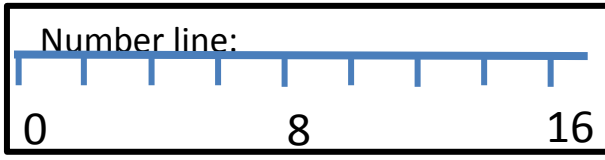
160 ÷80=2

Number line:

Bar model:

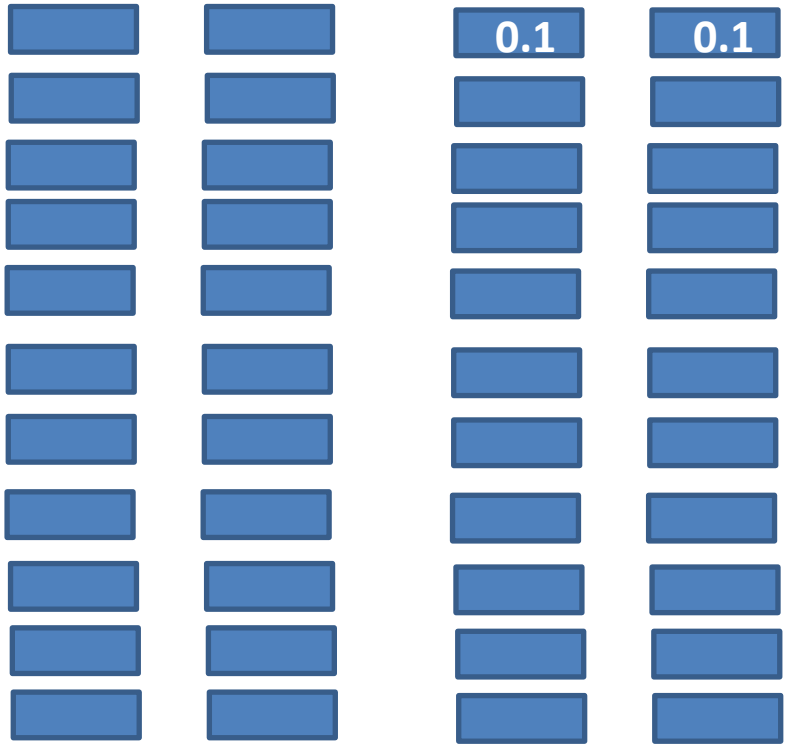


Number line:



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?

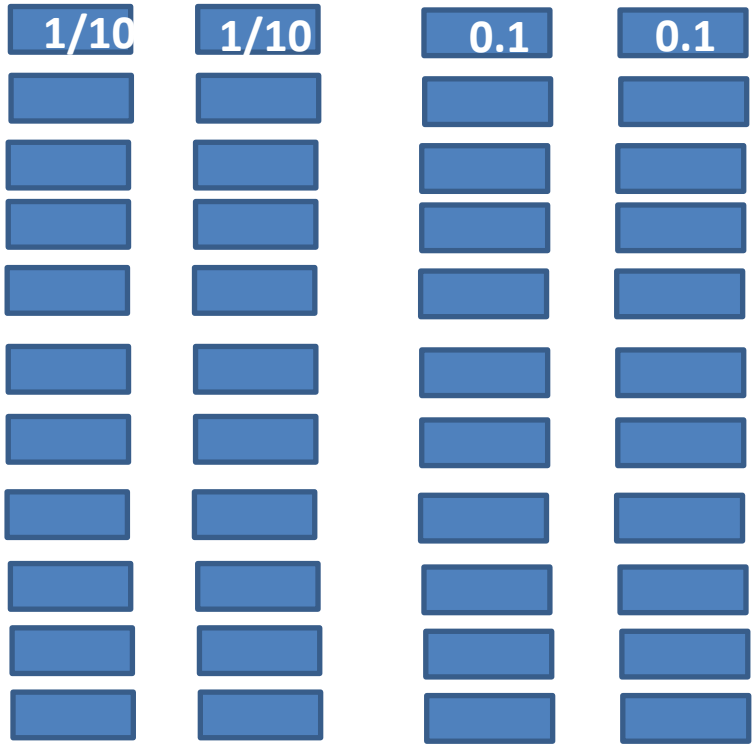
Multiples of 2, 0.2



2 X1=
2 X2=
2 X3=
2 X4=
2 X5=
2 X6=
2 X7=
2 X8=
2 X9=
2X10=

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

Multiples of 2/10, 0.2



2/10 X1=
2/10 X2=
2/10 X3=
2/10 X4=
2/10 X5=
2/10 X6= 12/10= $1\frac{2}{10}$
2/10 X7=
2/10 X8=
2/10 X9=
2/10 X10=

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

Dividing into groups of 0.2, 2

1 ÷ 0.2=
2 ÷ 0.2=

0.2 ÷ 0.2=
0.4 ÷ 0.2=

0.8 ÷ 0.2=
1.6 ÷ 0.2=

0.6÷ 0.2=
1.2 ÷ 0.2=

1.4÷ 0.2=
1.8 ÷ 0.2=

10 ÷ 2=
20 ÷ 2=

2 ÷ 2=
4 ÷ 2=

8 ÷ 2=
16 ÷ 2=

6÷ 2=
12 ÷ 2=

14÷ 2=
18 ÷ 2=

Dividing into groups of 0.2, 2, 20,

$1 \div 0.2=$ $0.2 \div 0.2=$ $0.8 \div 0.2=$ $0.6 \div 0.2=$ $1.4 \div 0.2=$

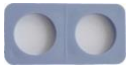
$2 \div 0.2=$ $0.4 \div 0.2=$ $1.6 \div 0.2=$ $1.2 \div 0.2=$ $1.8 \div 0.2=$

$10 \div 2=$ $2 \div 2=$ $8 \div 2=$ $6 \div 2=$ $14 \div 2=$

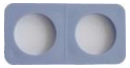
$20 \div 2=$ $4 \div 2=$ $16 \div 2=$ $12 \div 2=$ $18 \div 2=$

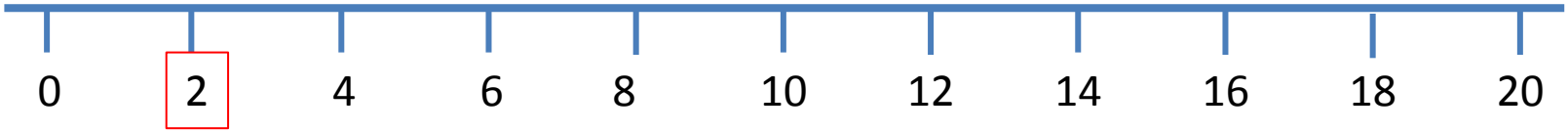
$100 \div 20=$ $20 \div 20=$ $80 \div 20=$ $60 \div 20=$ $140 \div 20=$

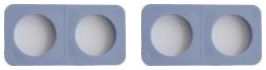
$200 \div 20=$ $40 \div 20=$ $160 \div 20=$ $120 \div 20=$ $180 \div 20=$



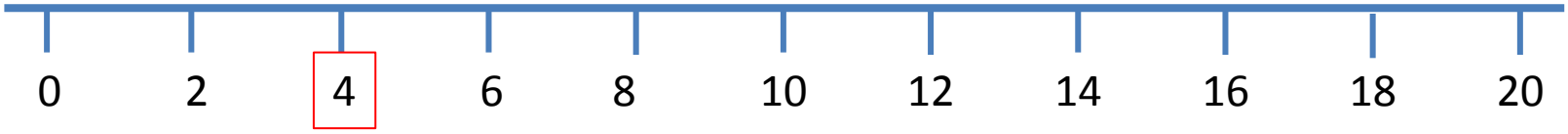
2 X 1= 2

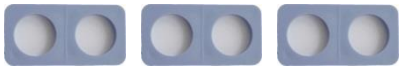




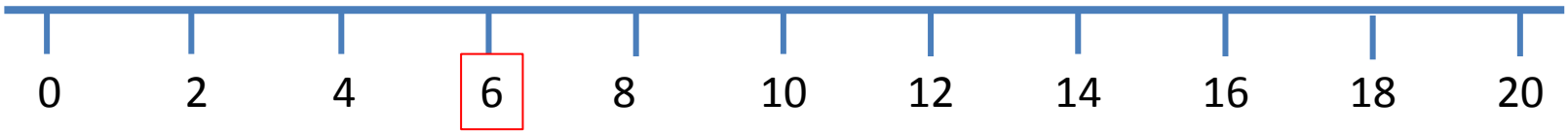


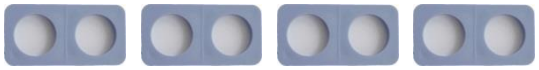
2 X 2= 4



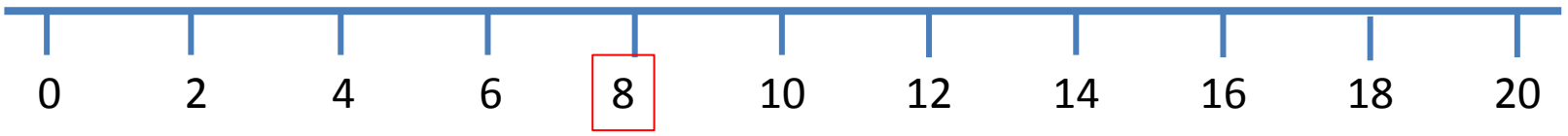


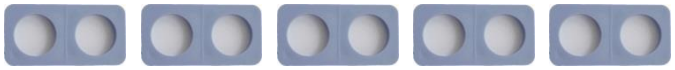
2 X 3= 6



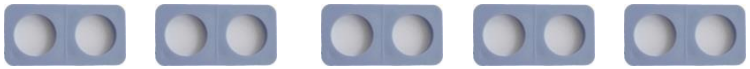


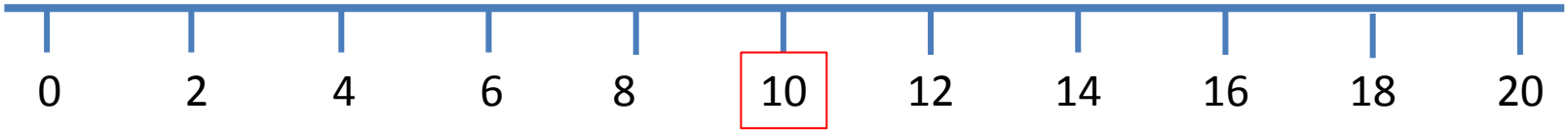
2 X 4= 8

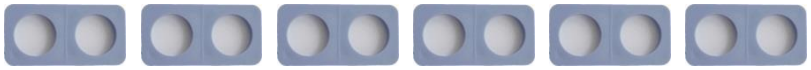




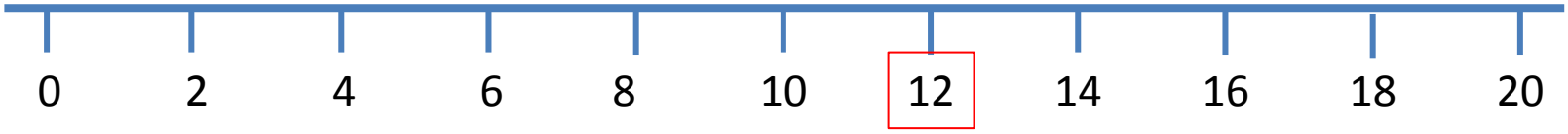
2 X 5 = 10

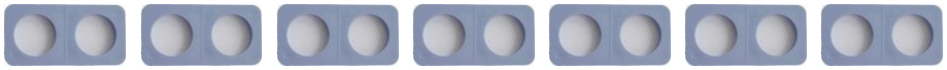




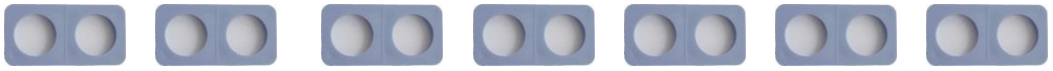


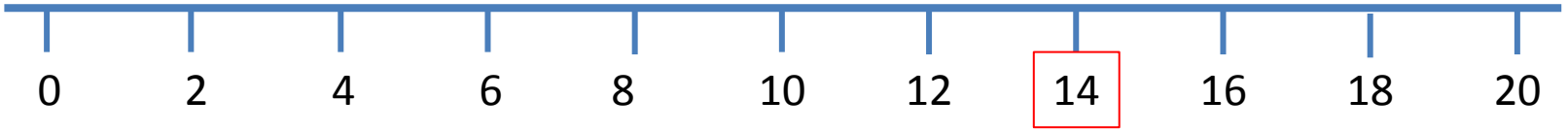
2 X 6 = 12

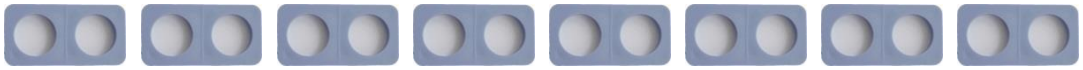




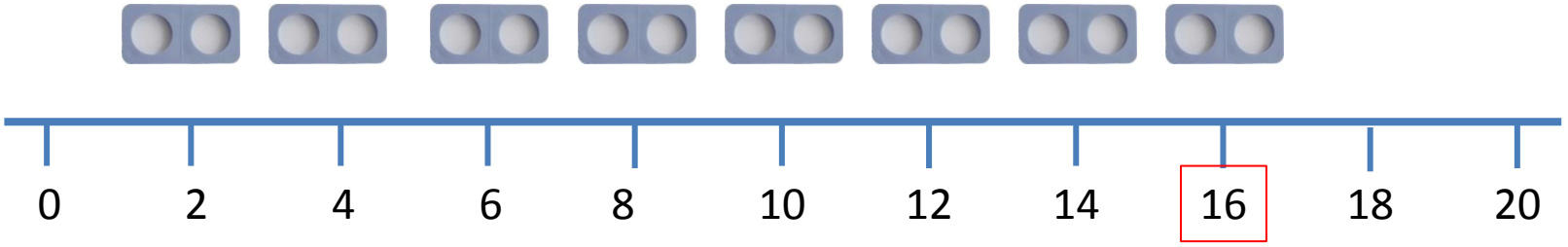
2 X 7 = 14

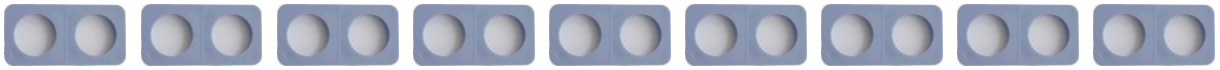






2 X 8 = 16





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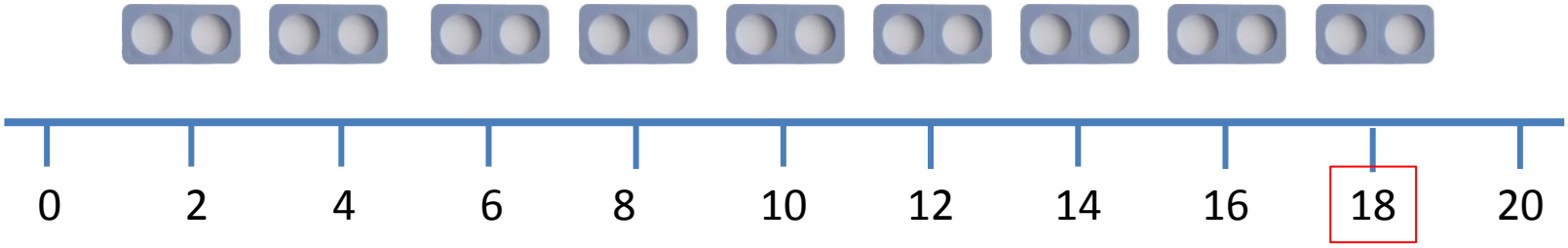
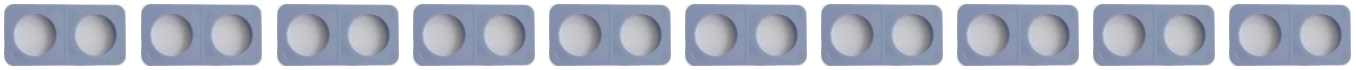
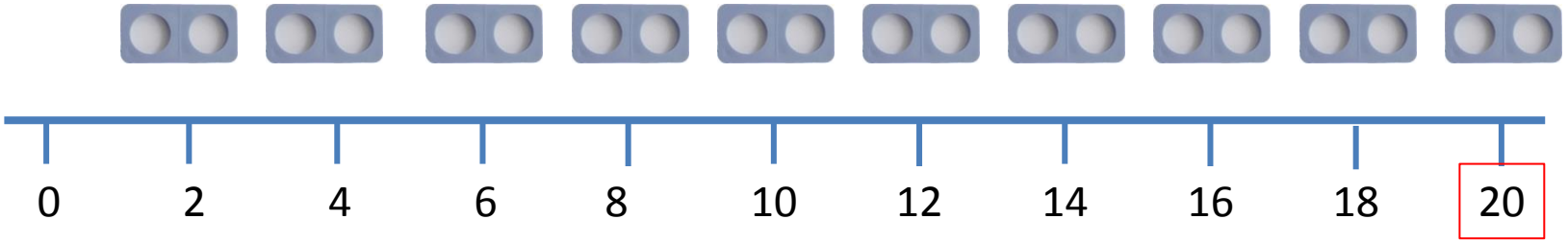
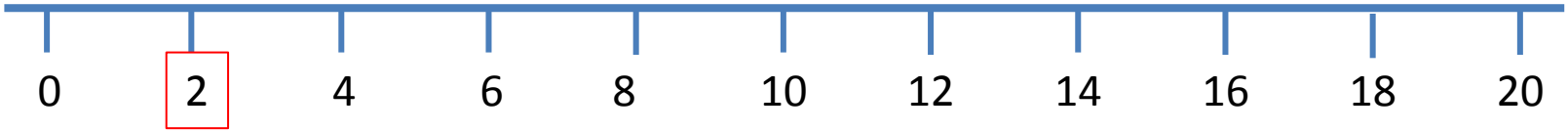




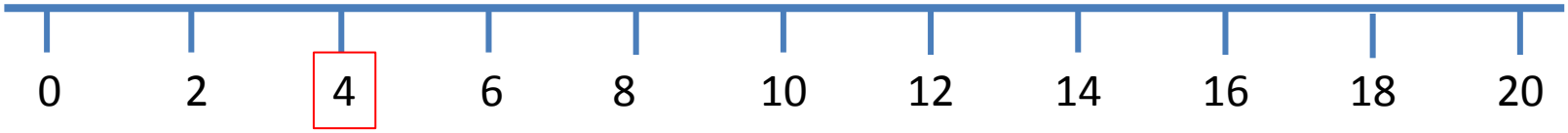
2 X 10 = 20



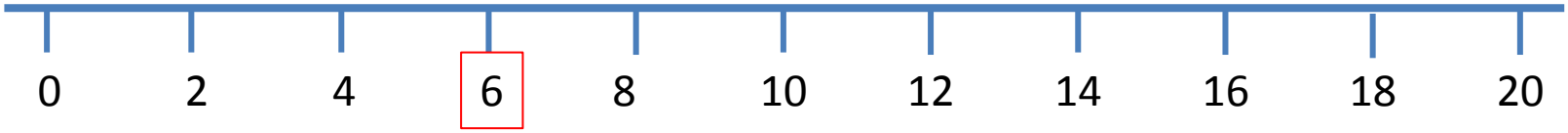
2 X 1= 2



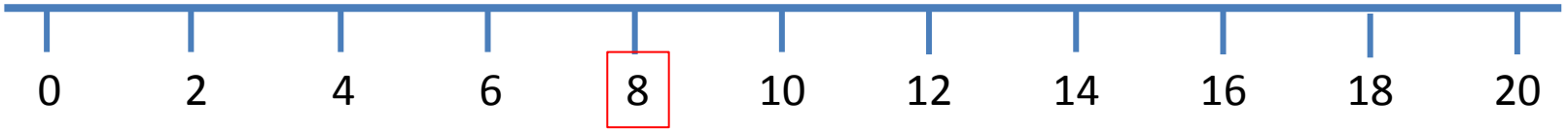
2 X 2= 4



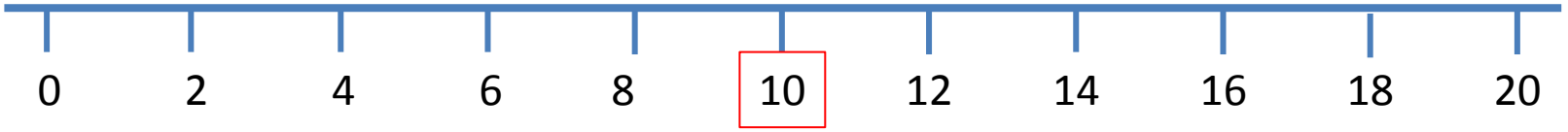
2 X 3= 6



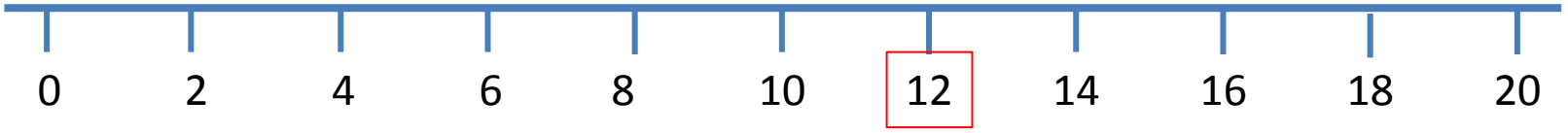
2 X 4= 8



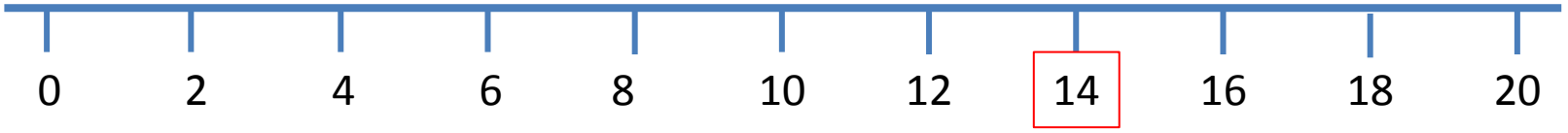
2 X 5 = 10



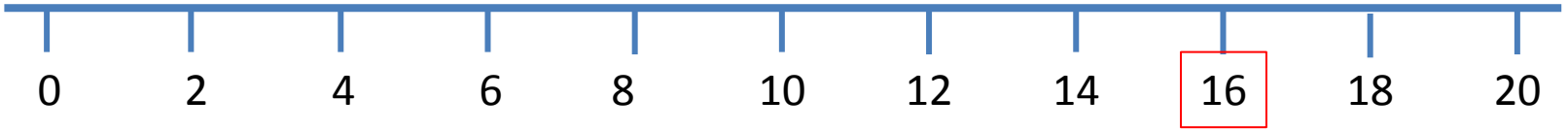
2 X 6 = 12



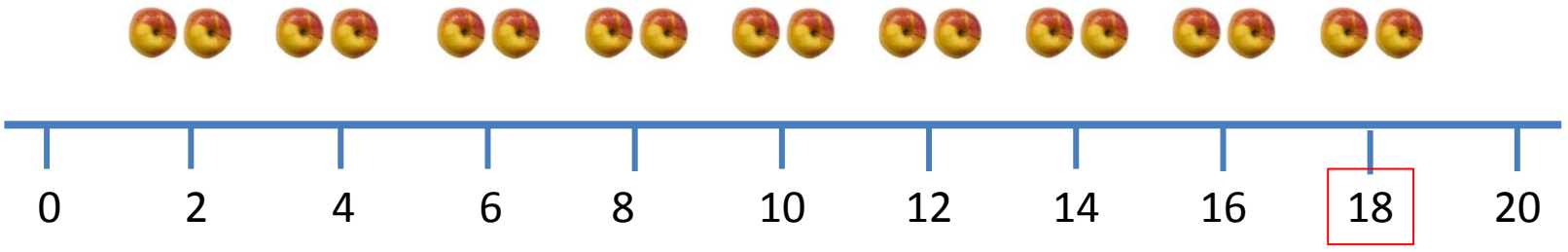
2 X 7 = 14



2 X 8 = 16



2 X 9 = 18



2 X 10 = 20