Week 1

Year 4 Maths Challenge

Last term (Y4)

Colour the multiples of 3 in the hundred square.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Previous learning…

Complete the multiplications.

	H	T	O
	4	3	
×		5	

	H	T	O
	3	6	
×		4	

	H	T	O
	7	4	
×		5	

We are currently learning…

Calculate 185 ÷ 5 using short division.

	5	1	8	5

We are learning next…

Complete the additions.

- $\frac{3}{4} + \frac{\square}{\square} = 1$
- $\frac{3}{7} + \frac{\square}{\square} = 1$
- $1 = \frac{\square}{\square} + \frac{3}{10}$

Week 2

Year 4 Maths Challenge

Last term (Y4)

Which numbers can be divided into equal groups of 6?

24	18	48	60
9	56	72	38

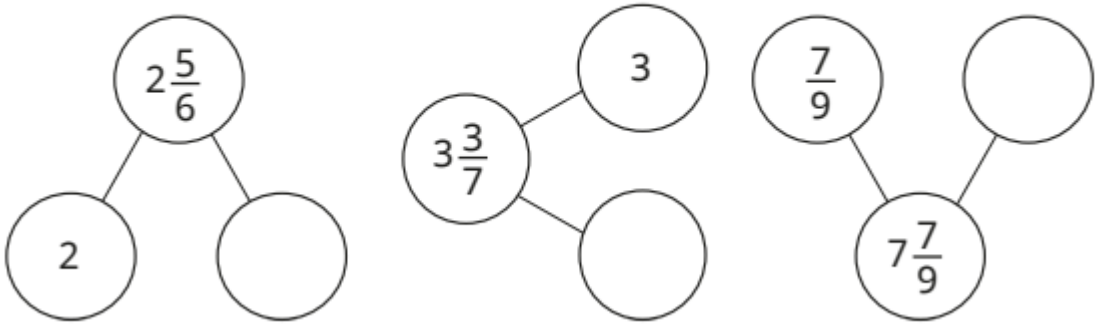
Previous learning…

Complete the number tracks.

$\frac{5}{7}$	$\frac{6}{7}$			$1\frac{2}{7}$
$6\frac{1}{2}$	6			
$1\frac{3}{5}$	$1\frac{2}{5}$			
$2\frac{1}{9}$	$2\frac{4}{9}$			

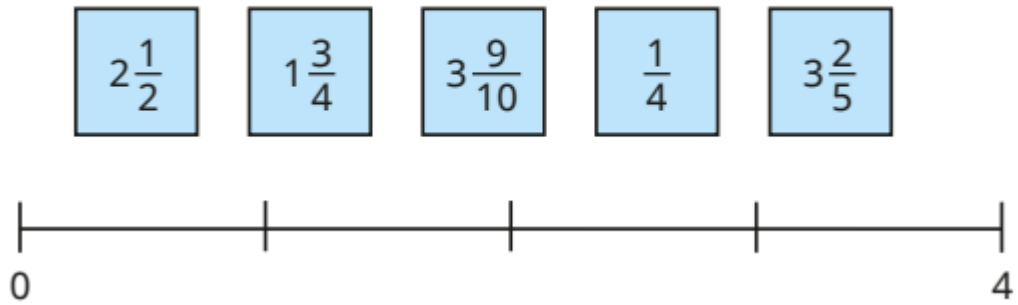
We are currently learning…

Complete the part-whole models to show the wholes and fractions in the mixed numbers.



We are learning next…

Draw arrows to estimate the positions of the numbers on the number line.



Week 3

Year 4 Maths Challenge

Last term (Y4)

Which of the numbers are multiples of 9?

54 108 18 24 9

67 72 37 45

Previous learning…

Label the numbers on the number lines.

$2\frac{3}{4}$ $3\frac{1}{4}$ $4\frac{2}{4}$ $1\frac{4}{4}$

We are currently learning…

Put the mixed numbers in order, starting with the smallest.

$1\frac{3}{4}$, $2\frac{3}{4}$, $1\frac{1}{4}$, $3\frac{3}{4}$, $2\frac{1}{4}$

$15\frac{4}{7}$, $15\frac{6}{7}$, $15\frac{3}{7}$, $16\frac{1}{7}$, $15\frac{1}{7}$

We are learning next…

Fill in the missing numbers.

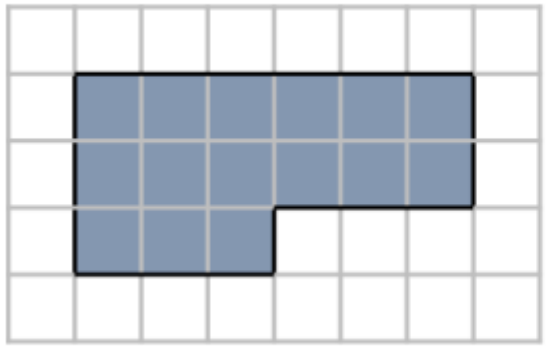
- $\frac{4}{2} =$ _____
- $\frac{10}{2} =$ _____
- $\frac{\square}{2} = 10$
- $\frac{30}{10} =$ _____
- $6 = \frac{\square}{10}$
- $\frac{110}{10} =$ _____

Week 4

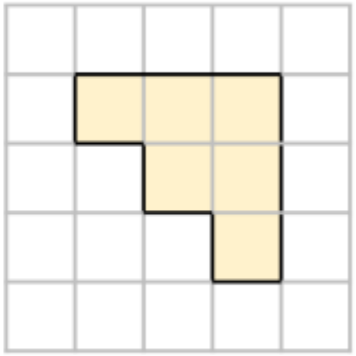
Year 4 Maths Challenge

Last term (Y4)

What is the area of each shape?



squares



squares

Previous learning…

Convert the improper fractions to mixed numbers.

$\frac{12}{3}$ $\frac{13}{3}$ $\frac{14}{3}$ $\frac{15}{3}$ $\frac{16}{3}$ $\frac{17}{3}$

We are currently learning…

Use the number lines to complete the equivalent fractions.

- $\frac{\square}{3} = \frac{2}{6}$
- $1\frac{1}{3} = \frac{\_\_\_\_}{6}$
- $1\frac{4}{6} = \frac{\_\_\_\_}{\square}$

We are learning next…

$\frac{2}{5} + \frac{4}{5}$ $\frac{4}{5} + \frac{4}{5}$ $\frac{3}{10} + \frac{9}{10}$ $\frac{7}{10} + \frac{9}{10}$

Week 5

Year 4 Maths Challenge

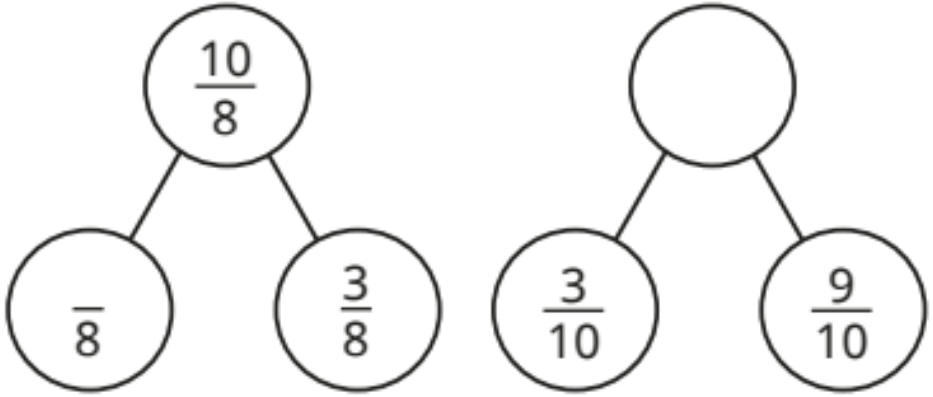
Last term (Y4)

$465 + 199 = 199 + \_\_\_\_\_$

$799 + 195 = 800 + \_\_\_\_\_$

$3{,}842 + 5{,}669 = 2{,}842 + \_\_\_\_\_$

Previous learning…



We are currently learning…

$2\frac{2}{5} + \frac{2}{5}$

$2\frac{1}{10} + \frac{6}{10}$

$1\frac{4}{5} + \frac{3}{5}$

$1\frac{1}{5} + \frac{2}{5}$

$2\frac{3}{5} + \frac{2}{5}$

$6\frac{4}{6} + \frac{5}{6}$

We are learning next…

$\frac{7}{9} - \frac{5}{9}$

$\frac{9}{9} - \frac{7}{9}$

$\frac{7}{9} - \frac{4}{9}$

$\frac{5}{6} - \frac{2}{6}$

Week 6

Year 4 Maths Challenge

Last term (Y4)

$12 \times 5 = \_\_\_$ ▸ $5 \times 12 = \_\_\_$ ▸ $48 \div 12 = \_\_\_$ ▸ $84 \div 12 = \_\_\_$

$12 \times \_\_\_ = 120$ ▸ $12 \times \_\_\_ = 132$ ▸ $\_\_\_ \div 12 = 8$ ▸ $\_\_\_ = 9 \times 12$

Previous learning…

$$\frac{2}{5} + \frac{2}{5} =$$

$$\frac{1}{4} + \frac{1}{4} =$$

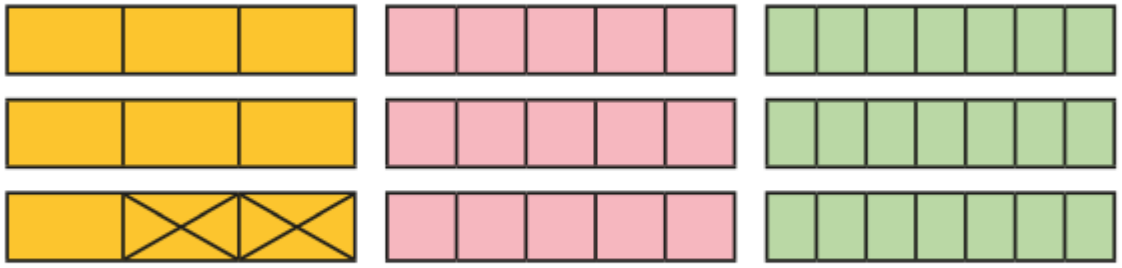
$$\frac{4}{7} + \frac{2}{7} =$$

We are currently learning…

$\frac{7}{6} - \frac{4}{6}$ $\frac{9}{6} - \frac{5}{6}$ $\frac{11}{6} - \frac{5}{6}$ $\frac{11}{6} - \frac{8}{6}$

We are learning next…

Use the bar models to work out the subtractions.



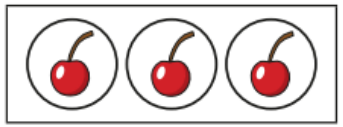
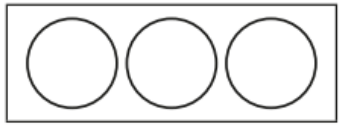
$3 - \frac{2}{3}$ $3 - \frac{3}{5}$ $3 - \frac{5}{7}$

Week 7

Year 4 Maths Challenge

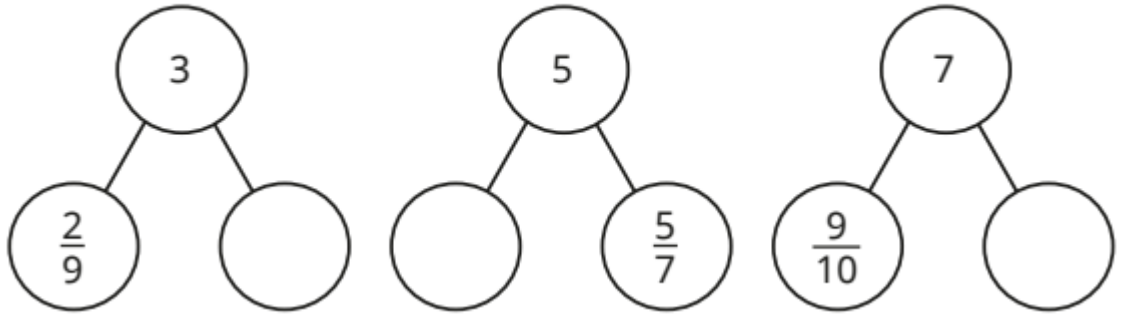
Last term (Y4)

Match the statements to the pictures.

3 lots of 0	
3 lots of 1	
1 lot of 3	

Previous learning…

Complete the part-whole models.



We are currently learning…

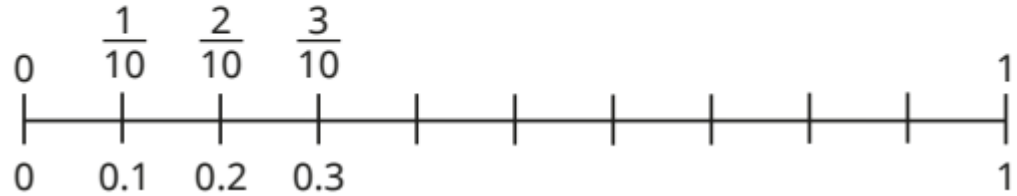
$2\frac{1}{5} - \frac{4}{5}$

$3\frac{2}{5} - \frac{3}{5}$

$2\frac{1}{6} - \frac{5}{6}$

We are learning next…

Complete the number line counting in tenths.



Week 8

Year 4 Weekly Maths Challenge

Last term

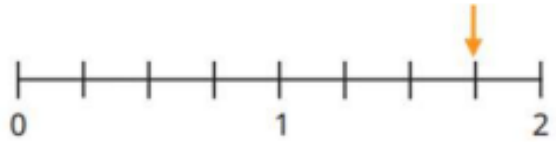
Complete the sentences.

57 rounded to the nearest 10 is _____

7,199 rounded to the nearest 1,000 is _____

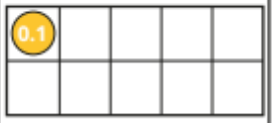
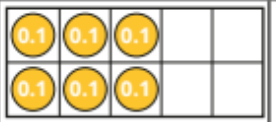
9,364 rounded to the nearest 10 is _____

Previous learning

Representation	Mixed number	Improper fraction
		$\frac{8}{3}$
	$1\frac{3}{4}$	

We are currently learning

Complete the table.

Picture	Words	Fraction	Decimal
	one tenth	$\frac{1}{10}$	0.1
			
			0.9

We are learning next

3 ÷ 10

4 ÷ 10

7 ÷ 10

9 ÷ 10

Week 9

Year 4 Weekly Maths Challenge

Last term

Each box contains 6 eggs.

Complete the fact family to represent the eggs.

□ × □ = □

□ × □ = □

□ ÷ □ = □

□ ÷ □ = □

Previous learning

Write <, > or = to make the statements correct.

5 ÷ 10 ◯ 10 ÷ 5

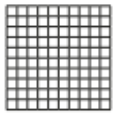
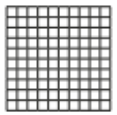
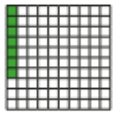
3 tens ◯ 3 ÷ 10

7 tenths ◯ 7 ÷ 10

3 ÷ 10 ◯ 4 ÷ 10

We are currently learning

Complete the table.

Picture	Words	Fraction	Decimal
	fifty-six hundredths		
		$\frac{17}{100}$	
			

We are learning next

26 ÷ 100

52 ÷ 100

4 ÷ 100

35 ÷ 100

78 ÷ 100

9 ÷ 100

Week 10

Year 4 Weekly Maths Challenge

Last term

Complete the calculations.

718 + 395 = 395 + _____

719 + 395 = 720 + _____

2,719 + 4,395 = 3,719 + _____

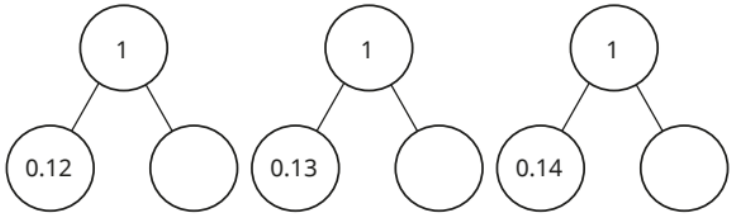
Previous learning

Complete the number sentences.

- 0.1 + _____ = 1
- 0.7 + 0.3 = _____
- $\frac{2}{10}$ + 0.8 = _____
- 1 = _____ + 0.5 + 0.1
- 1 = 0.2 + _____
- _____ + 0.5 = 1
- 1 = $\frac{6}{10}$ + _____
- $\frac{3}{10}$ + 0.4 + _____ = 1

We are currently learnir

Complete the part-whole models.



What do you notice?

Which calculations **do not** sum to 1?

0.54 + 0.56	0.54 + 0.46	0.54 + 0.54
0.3 + 0.7	0.03 + 0.7	0.03 + 0.07

We are learning next

Write < or > to compare the numbers.

5.8 ◯ 5.3	7.04 ◯ 7.09	0.43 ◯ 0.6
3.79 ◯ 3.71	0.9 ◯ 0.10	8.55 ◯ 8.3

Week 11

Year 4 Weekly Maths Challenge

Last term

Calculate.

$36 \times 8 =$_____

$215 \times 7 =$_____

Mr Rose has £2,000
He buys 6 new paintings.
Each painting costs £259

How much money does he have left?

Previous learning

Complete the sentences to show how much money is in each box.

There is _____ pounds.

There is _____ pence.

There is £_____ and _____p.

There is £_____._____

We are currently learning

Match the equal amounts.

£5.70	£0.75	£5.07	£0.57	£7.50
750p	570p	57p	507p	75p

We are learning next

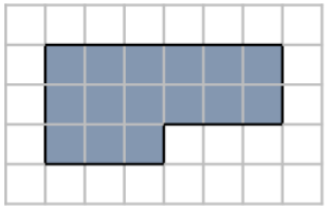
Write <, > or = to compare the amounts.

Week 12

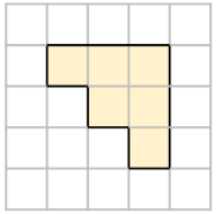
Year 4 Weekly Maths Challenge

Last term

What is the area of each shape?

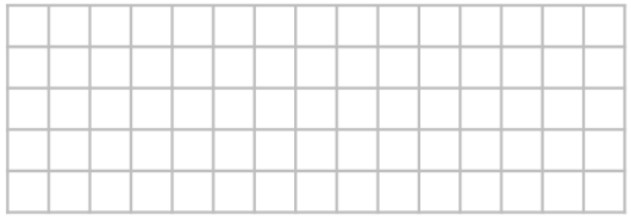


squares



squares

Draw a **rectangle** with an area of 15 squares.



Previous learning

Round the amounts to the nearest 10p.

47p	32p	89p	64p	75p	142p

How else can 142p be written?

We are currently learning

Complete the tables.

Days	Weeks
	1
	5
	10
	20
	80

Years	Months
	12
2	
	6
	48
10	

We are learning next

The time is 20 minutes past 5 in the evening.

Draw digital clocks to show what time it will be:

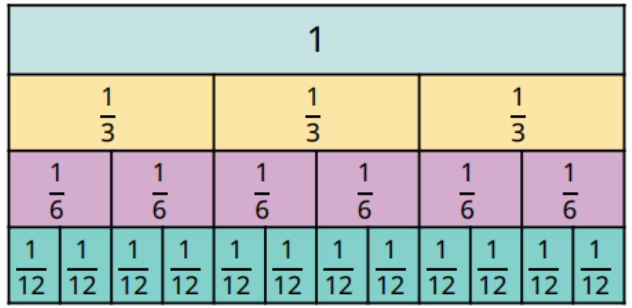
5 minutes later	$\frac{1}{2}$ hour later
120 seconds later	20 minutes later

Week 13

Year 4 Weekly Maths Challenge

Last term

Complete the equivalent fractions.
Use the fraction wall to help you.



$\frac{1}{3} = \frac{\square}{6} = \frac{\square}{12}$ $1 = \frac{\square}{12} = \frac{\square}{6} = \frac{\square}{3}$

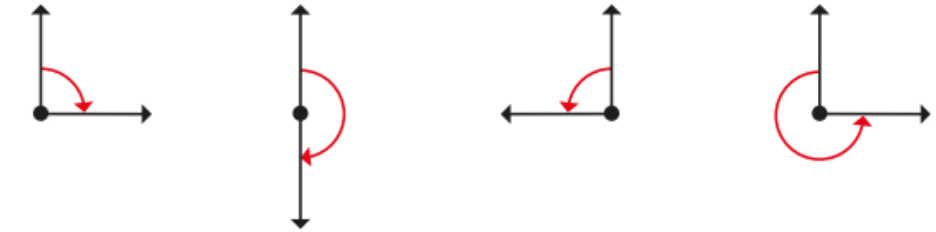
Previous learning

Match the 12-hour clock times to the 24-hour clock times.

7:30 am	19:30
7:30 pm	21:30
9:30 am	09:30
9:30 pm	11:30
11:30 am	07:30

We are currently learning

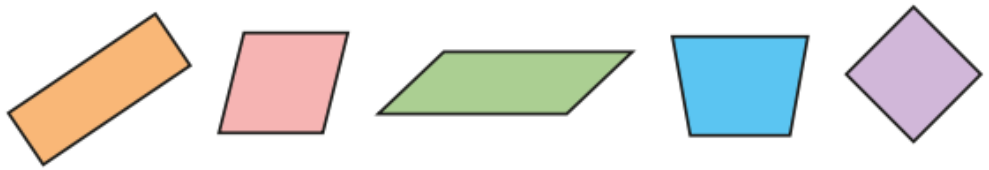
Match the turns to the labels.



half turn clockwise | quarter turn anticlockwise | quarter turn clockwise | three-quarter turn anticlockwise

We are learning next

Use the word bank to label each quadrilateral.



trapezium | square | rhombus | rectangle | parallelogram

Describe the properties of each shape.

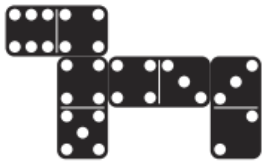
Week 14

Year 4 Weekly Maths Challenge

Maths Investigation: Domino Investigation:

Domino Dog Show

Use four dominoes to make a dog.
All dominoes that touch one another must have the same number of spots on the touching sides.
Add up all the spots on the dominoes used to make the dog to find the total.



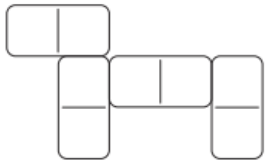
6 + 4 = 10
4 + 1 = 5
4 + 3 = 7
3 + 2 = 5

10 + 5 + 7 + 5 = 27

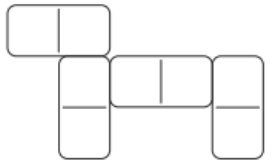
The dog has a total of 27 spots.

Complete the challenges and make domino dogs whose spots totals match the criteria for each question.

1) The greatest number of spots possible.

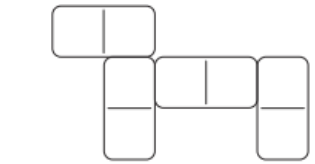


2) The fewest number of spots possible.

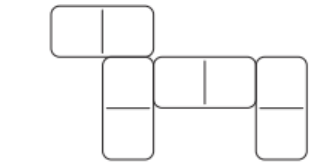


Domino Dog Show

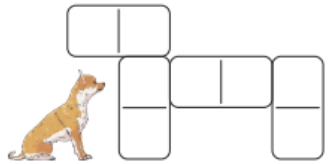
3) A spot total that is a multiple of 5.



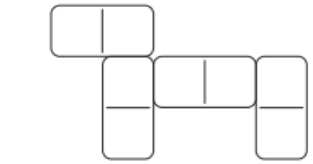
4) A spot total that is a multiple of 3.



4) A spot total of 28.

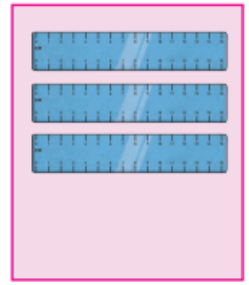


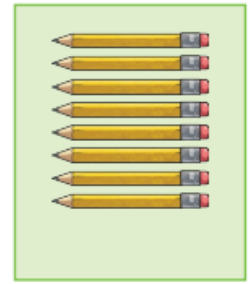
5) A spot total that is a prime number.



Reasoning Practice:

A teacher has bought 6 packs of each type of equipment for their class.





How many items of equipment are there in total?

If 5 of the glue sticks get used, how many would there still be in the classroom?

Multiply and divide these numbers mentally to complete the statements.

80 ÷ 4 = ☐ 50 × 6 = ☐

240 ÷ 8 = ☐ ☐ ÷ 7 = 80

200 × 6 = ☐ ☐ × 50 = 2000