Compare and order any integers

White
Rose
Maths

1 Here are two numbers shown on place value charts.

TTh	Th	H	T	O

TTh	Th	H	T	O
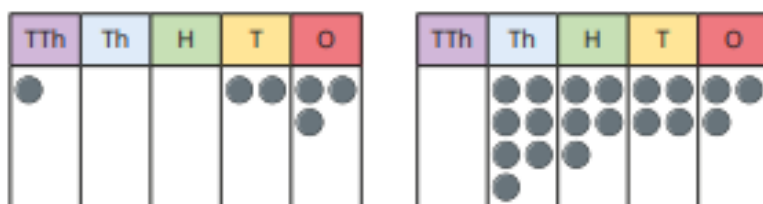
a) Tick the place value chart that represents the greater number.
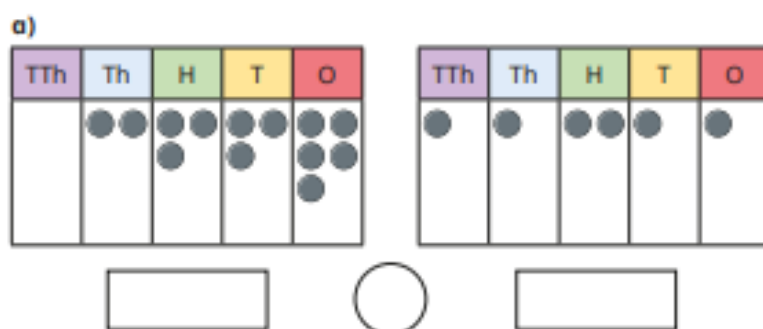   Explain your answer.

   _____

   _____

b) Move one counter to make the other number greater.
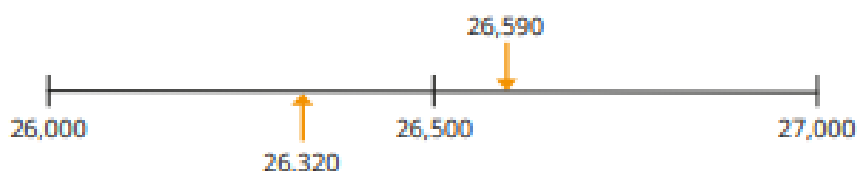   Draw your answer on the place value chart.

2 Write the numbers represented in the place value charts.
   Write <, > or = to compare the numbers.

a)

TTh	Th	H	T	O

TTh	Th	H	T	O

Round any integer

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1 The position of two numbers is shown on the number line.

```
                              26,590
                                 ↓
  |------------|------+--------------------|
26,000        ↑    26,500              27,000
            26,320
```

a) Are the numbers closer to 26,000 or 27,000?

Complete the sentences.

26,320 is closer to [   ] than [   ]

26,590 is closer to [   ] than [   ]

b) Complete the sentences to round the numbers to the nearest 1,000

26,320 rounds to [   ] to the nearest 1,000

26,590 rounds to [   ] to the nearest 1,000

2 Round the numbers to the nearest 1,000

a) 17,801 [   ]

b) 42,370 [   ]

c) 34,099 [   ]

d) 9,712 [   ]

e) 20,489 [   ]

f) 99,840 [   ]

Add and subtract integers

1 Complete the calculations.

a)

	3	0	5	9	4
+	1	5	4	2	3

c) 5,236 + 424,850

b)

	4	2	4	8	5	0
−			5	2	3	6

d) 30,594 − 15,423

2 Calculate the missing numbers. Show your method.

a)

3,715

1,890

b)
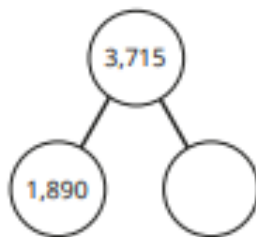
| 2,354 | 750 | 1,500 |

Common factors

1 **a)** Use 18 counters or cubes.

Make as many different arrays as possible, using all the cubes or counters.

Use your arrays to help you list the factors of 18

The factors of 18 are _____

_____

b) Use 24 counters or cubes.

Make as many different arrays as possible, using all the cubes or counters.

Use your arrays to help you list the factors of 24

The factors of 24 are _____

_____

c) What are the common factors of 18 and 24?

_____

d) What are the common factors of 16 and 32?

_____

<u>Multiplication</u>

1

$$3{,}257 \times 4 = 13{,}024$$

I know this is wrong by looking at the ones digit.

Is Eva correct? Talk about it with a partner.

2 Complete the multiplications.

a)

		1	2	3	5
×				5	3

b)

		4	0	3	6
×				2	4

c)

		6	9	7	8
×				7	6

<u>Word Problems</u>

2 Eva is working out 32 × 19

I can multiply 32 by 20 and then subtract 32

Use Eva's method to solve the problems.

a) 19 children are going on a school trip on the train.

A train ticket costs £24

What is the total cost of the tickets?

£ ☐

b) A house is 4 m tall.

A skyscraper is 39 times the height of the house.

What is the height of the skyscraper?

☐ m

3

To multiply by 5, I can multiply by 10 and then halve my answer.

Use Tiny's method to work out the multiplications.

a) 64 × 5 = ☐

c) 126 × 5 = ☐

b) 5 × 286 = ☐

d) 5 × 2,052 = ☐

Short division

Rose Maths

1 Work out the divisions mentally.

a) $9 \div 3 = \boxed{}$

$90 \div 3 = \boxed{}$

$900 \div 3 = \boxed{}$

$9,000 \div 3 = \boxed{}$

b) $6 \div 2 = \boxed{}$

$60 \div 2 = \boxed{}$

$6,000 \div 2 = \boxed{}$

$6,000 \div 3 = \boxed{}$

2 Complete the divisions.

a) $3 \, | \, 9 \, 3 \, 6 \, 9$

b) $2 \, | \, 8 \, 0 \, 4 \, 2$

c) $4 \, | \, 8 \, 5 \, 6 \, 4$

d) $5 \, | \, 5 \, 7 \, 0 \, 8 \, 5$

e) $3 \, | \, 7 \, 0 \, 8 \, 2 \, 7$

f) $6 \, | \, 2 \, 4 \, 6 \, 4 \, 2$

Solve multi-step problems

1 There are 12 sweets in a bag.

A group of friends has 16 bags of sweets.

a) If they eat 9 sweets, how many sweets will they have left?

b) If they eat 9 bags of sweets, how many sweets will they have left?

2 Ron and Mo are saving up to buy a new games console.

Ron saves £3 every week.

Mo saves £4 every week.

a) How much will they have saved altogether after 13 weeks?

£

b) The games console costs £343

How long will it take Ron and Mo to save enough money?

weeks

Maths Homework – Week 11. Due 27th November

<u>Multi-step Problems</u>

3 A school buys textbooks in boxes of 24

The school has 561 textbooks.

45 textbooks are given out.

How many full boxes of textbooks does the school have left?

4 A car travels 13 miles in 15 minutes.

How far will the car travel in 3 hours if it travels at the same speed?

miles

5 Nijah is playing a game of marbles with 8 friends.

They have 3 bags of marbles.

Each bag contains 123 marbles.

How many marbles do they each get if the marbles are shared equally between them?

Add and subtract simple fractions

1 Eva is working out $\frac{1}{3} + \frac{2}{9}$

She uses two fraction strips.

Use the fraction strips to help you complete the calculations.

$\frac{1}{3} = \frac{\boxed{}}{9}$

$\frac{1}{3} + \frac{2}{9} = \frac{\boxed{}}{9} + \frac{2}{9} = \frac{\boxed{}}{9}$

2 Complete the addition.

$\frac{3}{10} + \frac{2}{5} = \boxed{}$

3 Use the bar model to complete the subtraction.

$\frac{7}{8} - \frac{1}{4} = \boxed{}$

Maths Homework – Week 13. Due 11th December

Add mixed numbers

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1 Complete the calculations.

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

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

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

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

Talk to a partner about the methods you used.

2 The diagram shows an addition.

Complete the calculation to match the diagram.

$\boxed{} + \boxed{} = \boxed{}$

Maths Homework – Week 14. Due 18th December

Fraction of an amount

1

20

a) Shade $\frac{1}{5}$ of the bar model.

b) What is $\frac{1}{5}$ of 20?

2 Use your times-tables knowledge to work out the amounts.

a) $\frac{1}{3}$ of 12 =

b) $\frac{1}{4}$ of £20 =

c) $\frac{1}{5}$ of 35 m =

d) $\frac{1}{10}$ of 80 cm =

e) $\frac{1}{12}$ of 60 =

f) $\frac{1}{7}$ of 84 kg =

3 Use your answers to question 2 to work out the amounts.

a) $\frac{2}{3}$ of 12 =

b) $\frac{3}{4}$ of £20 =

c) $\frac{3}{5}$ of 35 m =

d) $\frac{7}{10}$ of 80 cm =

e) $\frac{11}{12}$ of 60 =

f) $\frac{6}{7}$ of 84 kg =