Year 6 Autumn 2 Maths Activity Mat 1

Section 1

Order the following numbers from smallest to largest:

45 545,
44 544,
44 545,
45 454.

smallest

largest

Section 2

Here are some estimated answers to some calculations. Tick the reasonable estimates.

705 × 3 ≈ 2000

6923 - 2012 ≈ 4000

328 ÷ 4 ≈ 80

Section 3

A grocer sells apples in bags of 5. The grocer buys a box that contains 162 apples. How many full bags can be made?

Section 4

Simplify the following fractions.

$\frac{4}{12}$ =

$\frac{5}{10}$ =

Section 5

Calculate:

0.3 × 10 =

0.1 × 10 =

0.9 × 10 =

Section 6

Convert the following:

1L = ml

L = 4000 ml

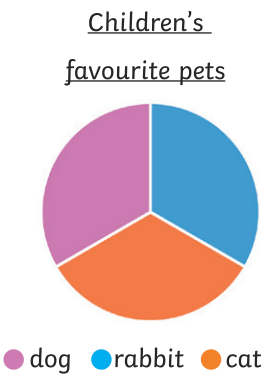
Section 7

I have 6 faces, all rectangles. I also have 12 edges and 8 vertices. What am I?

Section 8

A class researched children's favourite pets. They showed the results in a pie chart.

12 children chose dogs. How many children were included in the research?



Year 6 Autumn 2 Maths Activity Mat 1 **Answers**

Section 1

Order the following numbers from smallest to largest:

45 545, 44 544, 44 545, 45 454

smallest

44 544
44 545
45 454
45 545

largest

Section 2

Here are some estimated answers to some calculations. Tick the reasonable estimates.

705 × 3 ≈ 2000 ✓

6923 – 2012 ≈ 4000 ✗

328 ÷ 4 ≈ 80 ✓

Section 3

A grocer sells apples in bags of 5. The grocer buys a box that contains 162 apples. How many full bags can be made?

32 bags

Section 4

Simplify the following fractions.

$\frac{4}{12} = \boxed{\frac{1}{3}}$

$\frac{5}{10} = \boxed{\frac{1}{2}}$

Section 5

Calculate:

0.3 x 10 = **3**

0.1 x 10 = **1**

0.9 x 10 = **9**

Section 6

Convert the following:

1L = **1000 ml**

4 L = 4000 ml

Section 7

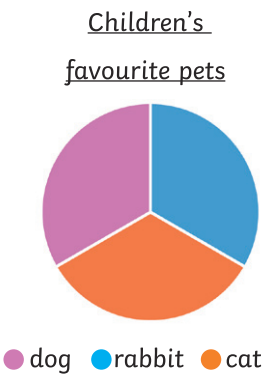
I have 6 faces, all rectangles. I also have 12 edges and 8 vertices. What am I?

Cuboid (allow cube or square prism as these are special cases of cuboids)

Section 8

A class researched children's favourite pets. They showed the results in a pie chart.

12 children chose dogs. How many children were included in the research?



36 children

Year 6 Autumn 2 Maths Activity Mat 1

Section 1

Order the following numbers from smallest to largest:

454 455,
445 544,
445 454,
454 445

smallest

largest

Section 2

Here are some estimated answers to some calculations. Tick the reasonable estimates.

a. 487 × 15 ≈ 6000

b. 70 391 - 29 822 ≈ 50 000

c. 749 ÷ 7 ≈ 100

Explain why any estimates are unreasonable.

Section 3

A grocer sells apples in bags of 8. The grocer buys a box that contains 315 apples. How many full bags can be made?

Section 4

Simplify the following fractions.

$\frac{12}{15}$ =

$\frac{9}{36}$ =

Section 5

Calculate:

0.1 × 100 =

0.8 × 100 =

0.4 × 100 =

Section 6

Convert the following:

0.7L = ml

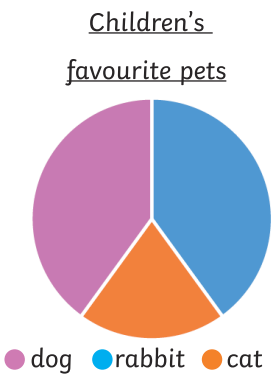
L = 6400 ml

Section 7

I have 5 faces, 9 edges and 6 vertices. At each end is a triangle and joining the triangles are 3 rectangles. What am I?

Section 8

A class researched children's favourite pets. They showed the results in a pie chart.



16 children chose dogs. Approximately, how many children were included in the research?

Year 6 Autumn 2 Maths Activity Mat 1 **Answers**

Section 1

Order the following numbers from smallest to largest:

454 455,

445 544,

445 454,

454 445

smallest

445 454
445 544
454 445
454 455

largest

Section 2

Here are some estimated answers to some calculations. Tick the reasonable estimates.

a. 487 × 15 ≈ 6000 ✗

b. 70 391 – 29 822 ≈ 50 000 ✗

c. 749 ÷ 7 ≈ 100 ✓

Explain why any estimates are unreasonable.

a. 487 is near 500, 500 × 15 = 7500 so 7000 or 7500 is a more reasonable estimate.

b.70 000 – 30 000 is gives a better approximate. 40 000 is more reasonable answer.

Section 3

A grocer sells apples in bags of 8. The grocer buys a box that contains 315 apples. How many full bags can be made?

39 bags

Section 4

Simplify the following fractions.

$\frac{12}{15} = \frac{4}{5}$

$\frac{9}{36} = \frac{1}{4}$

Section 5

Calculate:

0.1 × 100 = **10**

0.8 × 100 = **80**

0.4 × 100 = **40**

Section 6

Convert the following:

0.7L = **700 ml**

6.4 L = 6400 ml

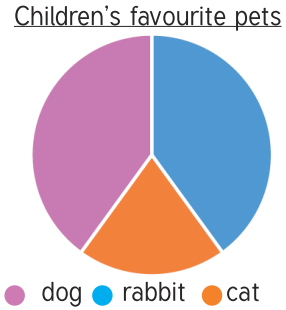
Section 7

I have 5 faces, 9 edges and 6 vertices. At each end is a triangle and joining the triangles are 3 rectangles. What am I?

A triangular prism

Section 8

A class researched children's favourite pets. They showed the results in a pie chart.



16 children chose dogs. Approximately, how many children were included in the research?

40 children

Year 6 Autumn 2 Maths Activity Mat 1

Section 1

Order the following numbers from smallest to largest, writing the answers in numerals: four hundred and fifty-four thousand, four hundred and fifty-four; four hundred and forty-five thousand, five hundred and forty-five; four hundred and fifty-four thousand, five hundred and forty-four; four hundred and forty-four thousand, five hundred and fifty-five.

smallest largest

Section 2

Here are some estimated answers to some calculations. Tick the reasonable estimates.

a. 2608 × 9 ≈ 30 000

b. 7 231 009 – 2 981 452 ≈ 5 000 000

c. 16 089 ÷ 15 ≈ 1000

Explain your answers.

Section 3

A grocer sells onions in bags of 12. The grocer buys 5 boxes each containing 176 onions. How many full bags can be made?

Section 4

Simplify the following fractions.

$\frac{15}{18}$ = ☐

$\frac{48}{64}$ = ☐

Section 5

Calculate:

0.7 x 110= ☐

0.4 x 1001= ☐

0.9 x 1010= ☐

Section 6

Convert the following:

17ml = ☐ L

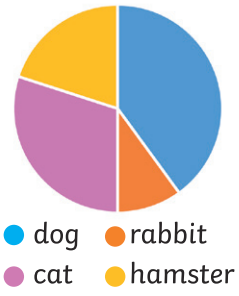
☐ cl = 0.305l

Section 7

I have one curved face and one flat face, with one curved edge. The flat face is a circle. Every point on the curved face is an equal distance from the centre of the circle. What am I? ☐

Section 8

A class researched children's favourite pets. They showed the results in a pie chart. 8 children chose hamsters. How many children chose each of the other pets? Dog___ Rabbit___ Cat___



Year 6 Autumn 2 Maths Activity Mat 1 **Answers**

Section 1

Order the following numbers from smallest to largest, writing the answers in numerals: four hundred and fifty-four thousand, four hundred and fifty-four; four hundred and forty-five thousand, five hundred and forty-five; four hundred and fifty-four thousand, five hundred and forty-four; four hundred and forty-four thousand, five hundred and fifty-five.

445 545	**445 555**	**454 454**	**454 544**

smallest largest

Section 2

Here are some estimated answers to some calculations. Tick the reasonable estimates.

a. 2608 × 9 ≈ 30 000 ✗

b. 7 231 009 – 2 981 452 ≈ 5 000 000 ✗

c. 16 089 ÷ 15 ≈ 1000 ✓

Explain your answers.

a. 2608 × 10 = 26 080 so 30 000 too big, rounded to 2600 gives a more appropriate approximate.
b. 2 981 452 closer to 3 000 000 so 4 000 000 is more appropriate approximate.
c. 16 000 ÷ 16 = 1000 so estimate is reasonable.

Section 3

A grocer sells onions in bags of 12. The grocer buys 5 boxes each containing 176 onions. How many full bags can be made?

73 bags

Section 4

Simplify the following fractions.

$\frac{15}{18}$ = $\frac{5}{6}$

$\frac{48}{64}$ = $\frac{3}{4}$

Section 5

Calculate:

0.7 x 110= **77**

0.4 x 1001= **400.4**

0.9 x 1010= **909**

Section 6

Convert the following:

17ml = **0.017L**

30.5cl = 0.305l

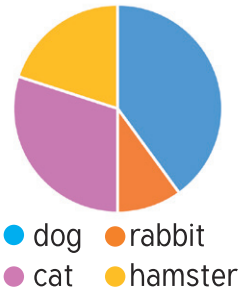
Section 7

I have one curved face and one flat face, with one curved edge. The flat face is a circle. Every point on the curved face is an equal distance from the centre of the circle. What am I?

A hemisphere

Section 8

A class researched children's favourite pets. They showed the results in a pie chart. 8 children chose hamsters. How many children chose each of the other pets?



Dog **16** Rabbit **4** Cat **12**