

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.

$$705 \times 3 \approx 2000$$

$$6923 - 2012 \approx 4000$$

$$328 \div 4 \approx 80$$

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.

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

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

Section 5

Calculate:

$$0.3 \times 10 = \boxed{}$$

$$0.1 \times 10 = \boxed{}$$

$$0.9 \times 10 = \boxed{}$$

Section 6

Convert the following:

$$1\text{L} = \boxed{}\text{ml}$$

$$\boxed{}\text{L} = 4000\text{ml}$$

Section 7

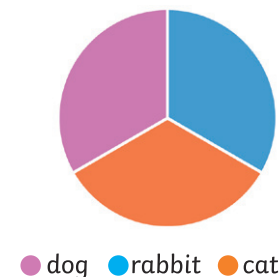
I have 6 faces, all rectangles. I also have 12 edges and 8 vertices. What am I?

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?

Children's favourite pets



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.

$$705 \times 3 \approx 2000$$



$$6923 - 2012 \approx 4000$$



$$328 \div 4 \approx 80$$



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:

$$0.3 \times 10 =$$

3

$$0.1 \times 10 =$$

1

$$0.9 \times 10 =$$

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?

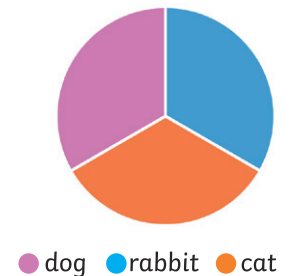
Cuboid (allow cube or square prism as these are special cases of cuboids)

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?

Children's favourite pets



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. $487 \times 15 \approx 6000$
b. $70\,391 - 29\,822 \approx 50\,000$
c. $749 \div 7 \approx 100$

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.

$$\frac{12}{15} = \boxed{}$$

$$\frac{9}{36} = \boxed{}$$

Section 5

Calculate:

$$0.1 \times 100 = \boxed{}$$

$$0.8 \times 100 = \boxed{}$$

$$0.4 \times 100 = \boxed{}$$

Section 6

Convert the following:

$$0.7\text{L} = \boxed{} \text{ ml}$$

$$\boxed{} \text{ L} = 6400 \text{ ml}$$

Section 7

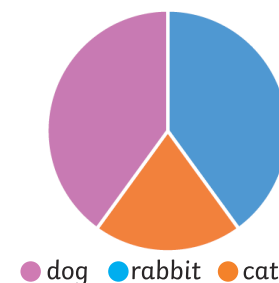
I have 5 faces, 9 edges and 6 vertices. At each end is a triangle and joining the triangles are 3 rectangles. What am I?

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?

Children's favourite pets



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. $487 \times 15 \approx 6000$ **X**

b. $70\,391 - 29\,822 \approx 50\,000$ **X**

c. $749 \div 7 \approx 100$ **✓**

Explain why any estimates are unreasonable.

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

b. $70\,000 - 30\,000$ 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.

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

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

Section 5

Calculate:

$$0.1 \times 100 = \boxed{10}$$

$$0.8 \times 100 = \boxed{80}$$

$$0.4 \times 100 = \boxed{40}$$

Section 6

Convert the following:

$$0.7\text{L} = \boxed{700 \text{ ml}}$$

$$\boxed{6.4 \text{ L}} = 6400 \text{ ml}$$

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?

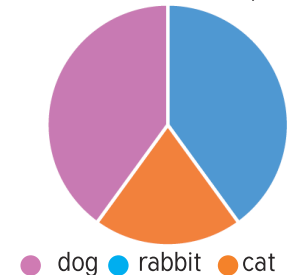
A triangular prism

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?

Children's favourite pets



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. $2608 \times 9 \approx 30\,000$

b. $7\,231\,009 - 2\,981\,452 \approx 5\,000\,000$

c. $16\,089 \div 15 \approx 1000$

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.

$$\frac{15}{18} = \boxed{}$$

$$\frac{48}{64} = \boxed{}$$

Section 5

Calculate:

$$0.7 \times 110 = \boxed{}$$

$$0.4 \times 1001 = \boxed{}$$

$$0.9 \times 1010 = \boxed{}$$

Section 6

Convert the following:

$$17\text{ml} = \boxed{} \text{ L}$$

$$\boxed{} \text{ cl} = 0.305\text{l}$$

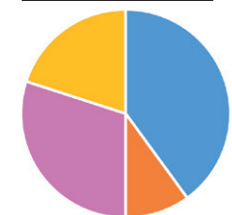
Section 7

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?

Children's favourite pets



● dog ● rabbit
● cat ● hamster

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. $2608 \times 9 \approx 30\,000$ ~~X~~
b. $7\,231\,009 - 2\,981\,452 \approx 5\,000\,000$ ~~X~~
c. $16\,089 \div 15 \approx 1000$ ✓

Explain your answers.

- a. $2608 \times 10 = 26\,080$ 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. $16\,000 \div 16 = 1000$ 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:

$$0.7 \times 110 = 77$$

$$0.4 \times 1001 = 400.4$$

$$0.9 \times 1010 = 909$$

Section 6

Convert the following:

$$17\text{ml} = 0.017\text{L}$$

$$30.5\text{cl} = 0.305\text{l}$$

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?

Children's favourite pets



● dog ● rabbit
● cat ● hamster

Dog 16 Rabbit 4 Cat 12