

# Year 6 Spring 1 Maths Activity Mat 1

## Section 1

Order the following numbers from smallest to largest:

49 944    44 949    49 494    44 499    49 449

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smallest

largest

## Section 4

Simplify the following fractions:

$$\frac{2}{6} = \boxed{\phantom{00}}$$

$$\frac{4}{8} = \boxed{\phantom{00}}$$

## Section 5

Calculate:

$$0.3 \times 10 = \boxed{\phantom{00}}$$

$$0.6 \times 10 = \boxed{\phantom{00}}$$

$$0.5 \times 10 = \boxed{\phantom{00}}$$

## Section 6

Convert the following:

$$1\text{ kg} = \underline{\hspace{2cm}}\text{ g}$$

$$\underline{\hspace{2cm}}\text{ kg} = 2000\text{ g}$$

## Section 2

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

☐  $324 \times 5 \approx 1600$

☐  $5069 + 2962 \approx 7000$

☐  $818 \div 4 \approx 200$

## Section 3

A farmer picks 97 apples. He sells them in boxes of 12. How many boxes can he fill from the 97 apples?

## Section 7

Write a description of a cylinder.

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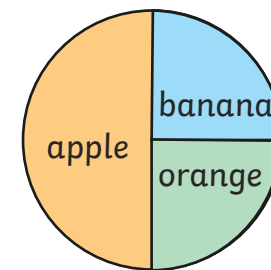
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## Section 8

Some children research children's favourite fruit. They show the results in a pie chart.



32 children were asked about their favourite fruit. How many children chose each fruit?

Apple , Banana , Orange

## Year 6 Spring 1 Maths Activity Mat 1 - Answers

### Section 1

Order the following numbers from smallest to largest:

49 944    44 949    49 494    44 499    49 449

44 499	44 949	49 449	49 494	49 944
smallest				largest

### Section 4

Simplify the following fractions:

$$\frac{2}{6} = \boxed{\frac{1}{3}}$$

$$\frac{4}{8} = \boxed{\frac{1}{2}}$$

### Section 5

Calculate:

$$0.3 \times 10 = \boxed{3}$$

$$0.6 \times 10 = \boxed{6}$$

$$0.5 \times 10 = \boxed{5}$$

### Section 6

Convert the following:

$$1\text{kg} = 1000\text{g}$$

$$2\text{kg} = 2000\text{g}$$

### Section 2

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



$$324 \times 5 \approx 1600$$



$$5069 + 2962 \approx 7000$$



$$818 \div 4 \approx 200$$

### Section 3

A farmer picks 97 apples. He sells them in boxes of 12. How many boxes can he fill from the 97 apples?

8

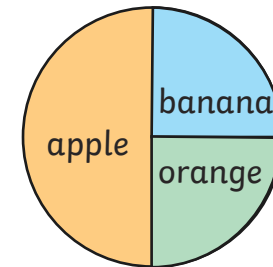
### Section 7

Write a description of a cylinder.

A cylinder has two faces that are circles and a curved face that joins each circle face. One circle is at the base of the shape, with the other circle immediately above the base, parallel to the base. Between the circular faces is a curved surface, with circular edges joining the two circle faces.

### Section 8

Some children research children's favourite fruit. They show the results in a pie chart.



32 children were asked about their favourite fruit. How many children chose each fruit?

Apple  , Banana  , Orange

## Year 6 Spring 1 Maths Activity Mat 1

### Section 1

Order the following numbers from smallest to largest:

494 944    494 494    449 494    449 944    494 499

smallest				largest

### Section 4

Simplify the following fractions:

$$\frac{3}{12} = \boxed{\phantom{00}}$$

$$\frac{6}{12} = \boxed{\phantom{00}}$$

### Section 5

Calculate:

$$0.2 \times 100 = \boxed{\phantom{00}}$$

$$0.8 \times 100 = \boxed{\phantom{00}}$$

$$0.3 \times 100 = \boxed{\phantom{00}}$$

### Section 6

Convert the following:

$$0.4\text{kg} = \underline{\hspace{2cm}}\text{g}$$

$$\underline{\hspace{2cm}}\text{kg} = 1700\text{g}$$

### Section 2

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

☐  $647 \times 12 \approx 8000$

☐  $35\,819 - 26\,756 \approx 9000$

☐  $357 \div 6 \approx 50$

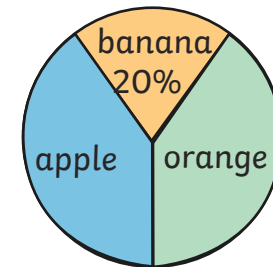
Explain why any estimates are unreasonable.

### Section 3

A farmer picks 237 apples. He packs them in boxes of 15 apples. How many boxes can he fill from 237 apples?

### Section 8

Some children research children's favourite fruit. They show the results in a pie chart.



30 children were asked about their favourite fruit. How many children chose each fruit?

Apple , Banana , Orange

## Year 6 Spring 1 Maths Activity Mat 1 - Answers

### Section 1

Order the following numbers from smallest to largest:

494 944    494 494    449 494    449 944    494 499

449 494	449 944	494 494	494 499	494 944
smallest				largest

### Section 4

Simplify the following fractions:

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

$$\frac{6}{12} = \boxed{\frac{1}{2}}$$

### Section 5

Calculate:

$$0.2 \times 100 = \boxed{20}$$

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

$$0.3 \times 100 = \boxed{30}$$

### Section 6

Convert the following:

$$0.4\text{kg} = 400\text{g}$$

$$1.7\text{kg} = 1700\text{g}$$

### Section 2

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

☒  $647 \times 12 \approx 8000$

☒  $35\,819 - 26\,756 \approx 9000$

☐  $357 \div 6 \approx 50$   $357 \div 6 \approx 60$  is a much more reasonable estimate.

Explain why any estimates are unreasonable.

### Section 3

A farmer picks 237 apples. He packs them in boxes of 15 apples. How many boxes can he fill from 237 apples?

15

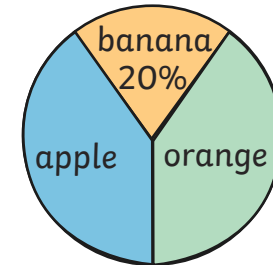
### Section 7

Write a description of a square-based pyramid.

A square-based pyramid has one square face and four triangular faces. The square face is at the base of the shape. One triangle meets each edge of the square, and one edge of each triangle meets the adjacent edge of the next triangle. The four meet at a point called the apex.

### Section 8

Some children research children's favourite fruit. They show the results in a pie chart.



30 children were asked about their favourite fruit. How many children chose each fruit?

Apple  , Banana  , Orange

## Year 6 Spring 1 Maths Activity Mat 1

### Section 1

Order the following numbers from smallest to largest:

494 449    449 949    494 949    449 499    494 944

smallest				largest

### Section 4

Simplify the following fractions:

$$\frac{6}{30} = \square$$

$$\frac{24}{32} = \square$$

### Section 5

Calculate:

$$0.9 \times 100 = \square$$

$$0.3 \times 1000 = \square$$

$$0.7 \times 1100 = \square$$

### Section 6

Convert the following:

$$2\text{g} = \text{_____ kg}$$

$$\text{_____ g} = 0.45\text{kg}$$

### Section 2

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

☐  $351 \times 22 \approx 7000$

☐  $7\,902\,814 - 4\,206\,394 \approx 3\,700\,000$

☐  $8024 \div 40 \approx 200$

Explain your answers.

### Section 3

A farmer picks 428 apples. He packs them in boxes of 15 apples. How many more apples are needed to fill 30 boxes?

### Section 7

Write a description of a tetrahedron.

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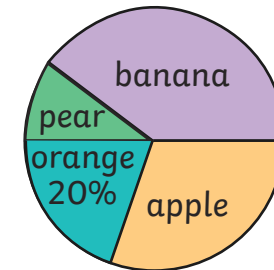
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### Section 8

Some children research children's favourite fruit. They show the results in a pie chart.



30 children were asked about their favourite fruit. How many children chose each fruit?

Apple	<input type="text"/>	Pear	<input type="text"/>
Banana	<input type="text"/>	Orange	<input type="text"/>

# Year 6 Spring 1 Maths Activity Mat 1 - Answers

## Section 1

Order the following numbers from smallest to largest:

494 449    449 949    494 949    449 499    494 944

449 499	449 949	494 449	494 944	494 949
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smallest largest

## Section 4

Simplify the following fractions:

$$\frac{6}{30} = \boxed{\frac{1}{5}}$$

$$\frac{24}{32} = \boxed{\frac{3}{4}}$$

## Section 5

Calculate:

$$0.9 \times 100 = \boxed{90}$$

$$0.3 \times 1000 = \boxed{300}$$

$$0.7 \times 1100 = \boxed{770}$$

## Section 6

Convert the following:

$$2\text{g} = 0.002\text{kg}$$

$$450\text{g} = 0.45\text{kg}$$

## Section 2

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

$351 \times 22 \approx 7000$  no,  $350 \times 20 = 7000$  so  $750 \times 22 = 7700$ , so  $7500 - 7700$  is a better estimate

$7\ 902\ 814 - 4206\ 394 \approx 3700\ 000$ , yes  $7.9$  million  $- 4.2$  million  $\approx 3.7$  million

$8024 \div 40 \approx 200$  yes  $8024 \div 4 \approx 2000$  so estimate is reasonable.

## Section 3

A farmer picks 428 apples. He packs them in boxes of 15 apples. How many more apples are needed to fill 30 boxes?

22

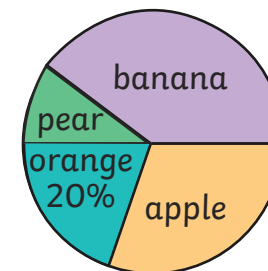
## Section 7

Write a description of a tetrahedron.

A tetrahedron has four triangular faces. One triangle is the base of the shape. At each edge of the base triangle, one edge of one of the other three triangles is attached. One edge of each of these triangles meet the adjacent edge of the next triangle. The three meet at a point.

## Section 8

Some children research children's favourite fruit. They show the results in a pie chart.



30 children were asked about their favourite fruit. How many children chose each fruit?

Apple	<input type="text" value="9"/>	Pear	<input type="text" value="3"/>
Banana	<input type="text" value="12"/>	Orange	<input type="text" value="6"/>