

# Year 5 Spring 1 Maths Activity Mat 1

## Section 1

Order the following numbers from smallest to largest:

50050 15050 50105 15015 50015

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smallest

largest

## Section 2

Five children have £23.09 altogether. Three have between £5 and £6, and 2 have between £3 and £4. How much could they each have?

## Section 3

Eric wants some pizzas cut into 60 pieces. Explain all the ways he could share some pizzas into 60 pieces.

## Section 4

Complete the mixed fractions and improper fractions so each pair is equivalent.

$\frac{17}{\underline{\quad}}$	$3\frac{\underline{\quad}}{2}$
--------------------------------	--------------------------------

$\frac{13}{\underline{\quad}}$	$2\frac{\underline{\quad}}{1}$
--------------------------------	--------------------------------

$\frac{14}{\underline{\quad}}$	$3\frac{\underline{\quad}}{2}$
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## Section 5

Write the equivalent to the fractions and decimal fractions.

	0.35
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$\frac{7}{8}$	
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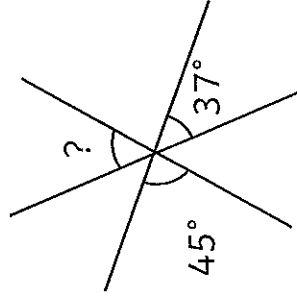
$\frac{4}{5}$	
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## Section 6

Draw a rectilinear octagon with a perimeter of 52cm. (not to scale). Mark all the necessary measurements.

## Section 7

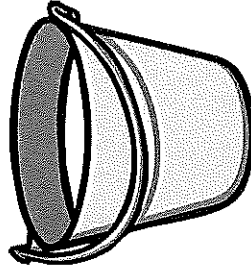
Calculate the missing angle:




\*not to scale

## Section 8

Estimate the capacity of a bucket of water in litres.



# Year 5 Spring 1 Maths Activity Mat 1 - Answers

## Section 1

Order the following numbers from smallest to largest:

50050 15050 50105 15015 50015 50015

15 015	15 050	50 015	50 050	50 105
smallest			largest	

## Section 2

Five children have £23.09 altogether.

Three have between £5 and £6, and 2 have between £3 and £4. How much could they each have?

Five numbers with a total of £23.09.

## Section 3

Eric wants some pizzas cut into 60 pieces. Explain all the ways he could share some pizzas into 60 pieces.

1 - 60, 2 - 30, 3 - 20, 4 - 15, 5 - 12, 6 - 10, 10 - 6, 12 - 5, 15 - 4, 20 - 3, 30 - 2, 60 - 1

## Section 4

Complete the mixed fractions and improper fractions so each pair is equivalent.

$$\frac{17}{5} \quad \text{---} \quad 3 \frac{2}{5}$$

$$\frac{13}{6} \quad \text{---} \quad 2 \frac{1}{6}$$

$$\frac{14}{4} \quad \text{---} \quad 3 \frac{2}{4}$$

## Section 5

Write the equivalent to the fractions and decimal fractions.

$$\frac{7}{20} \quad \text{---} \quad 0.35$$

$$\frac{7}{8} \quad \text{---} \quad 0.875$$

$$\frac{4}{5} \quad \text{---} \quad 0.8$$

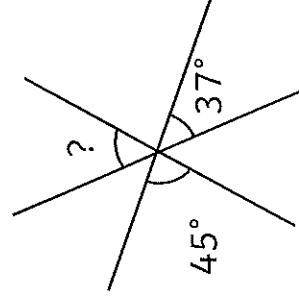
## Section 6

Draw a rectilinear octagon with a perimeter of 52cm. (not to scale). Mark all the necessary measurements.

Various answers

## Section 7

Calculate the missing angle:

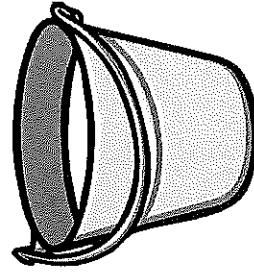


98°

\*not to scale

## Section 8

Estimate the capacity of a bucket of water in litres.



4 - 8 litres

# Year 5 Spring 1 Maths Activity Mat 2

## Section 1

In the number 187 263 which digit represents  $4 \times 50$ ?

## Section 2

The sum of two 2-digit numbers is the same as the difference between two other 2-digit numbers. What could be the four numbers?

## Section 3

Calculate:

$0.01 \times 1000 =$

$12.05 \times 1000 =$

$591 \div 1000 =$

$3418 \div 1000 =$

## Section 4

Use the  $<$  or  $>$  signs to compare these fractions:

$\frac{3}{10}$

$\frac{1}{2}$

$\frac{1}{3}$

$\frac{5}{12}$

$\frac{3}{4}$

$\frac{11}{16}$

## Section 5

Write the following decimals in words:

$10.05 =$  \_\_\_\_\_

$48.92 =$  \_\_\_\_\_

$31.13 =$  \_\_\_\_\_

## Section 6

Draw and name a regular triangle and an irregular triangle.

## Section 7

A washing machine has 3 different wash cycles:  
Hot wash using 2.4 litres of water

Medium wash using two thirds of the hot wash.

Cold wash using half of the hot wash.

What percentage of water of the medium wash does the cold wash use?

## Section 8

Here is a table showing the number of children who had a hot or cold meal on a particular day.

Use the following information to complete the table. There are 87 children altogether, there are same number of children in 5A and 5C, two thirds of the children had hot meals, 1 more child in 5B than 5A, and 2 less children in 5B than 5C had a hot meal, 8 children in 5B had a cold meal.

	5A	5B	5C	Total
Hot				
Cold				
Total				

# Year 5 Spring 1 Maths Activity Mat 2 Answers

## Section 1

In the number 187 263 which digit represents  $4 \times 50$ ?

2 in the hundreds column as  $4 \times 50 = 200$ .

## Section 2

The sum of two 2-digit numbers is the same as the difference between two other 2-digit numbers. What could be the four numbers?

Open ended:

e.g.  $21 + 23 = 95 - 51$

## Section 3

Calculate:

$$0.01 \times 1000 = 10$$

$$12.05 \times 1000 = 12\,050$$

$$591 \div 1000 = 0.591$$

$$3418 \div 1000 = 3.418$$

## Section 4

Use the < or > signs to compare these fractions:

$$\frac{3}{10} < \frac{1}{2}$$

$$\frac{1}{3} < \frac{5}{12}$$

$$\frac{3}{4} > \frac{11}{16}$$

## Section 5

Write the following decimals in words:

10.05 = ten point zero five (or variations for 0)

48.92 = forty-eight point nine two

31.13 = thirty-one point one three

## Section 6

Draw and name a regular triangle and an irregular triangle.

Irregular: isosceles, right angle or scalene triangle (with drawing)

## Section 7

A washing machine has

3 different wash cycles:

Hot wash using 2.4 litres of water

Medium wash using two thirds of the hot wash.

Cold wash using half of the hot wash.

What percentage of water of the medium wash does the cold wash use?

75%

## Section 8

Here is a table showing the number of children who had a hot or cold meal on a particular day.

Use the following information to complete the table. There are 87 children altogether, there are same number of children in 5A and 5C, two thirds of the children had hot meals, 1 more child in 5B than 5A, and 2 less children in 5B than 5C had a hot meal, 8 children in 5B had a cold meal.

	5A	5B	5C	Total
Hot	18	19	21	58
Cold	12	8	9	29
Total	30	27	30	87

# Year 5 Spring 1 Maths Activity Mat 3

## Section 1

Complete these linear sequences:

		3602	2602
5668		5868	
	23 889		43 889
20 467			20 167

## Section 2

Write a true statement and a false statement about prime numbers using the following:

2, 3, 5, 7, 11, 13, 17, 19

True: \_\_\_\_\_  
False: \_\_\_\_\_

## Section 3

Calculate:

$20 \times 0.6 =$

$500 \times 80 =$

$£0.40 \times 40 =$

$0.9 \times 0.11 =$

## Section 4

Circle the fractions that are equivalent to the first fraction in each line:

$\frac{1}{2}$       $\frac{3}{6}$

$\frac{11}{24}$

$\frac{6}{16}$

$\frac{10}{20}$

$\frac{2}{3}$       $\frac{5}{6}$

$\frac{11}{16}$

$\frac{8}{12}$

$\frac{10}{15}$

$\frac{3}{5}$       $\frac{5}{8}$

$\frac{12}{20}$

$\frac{6}{10}$

$\frac{9}{15}$

## Section 5

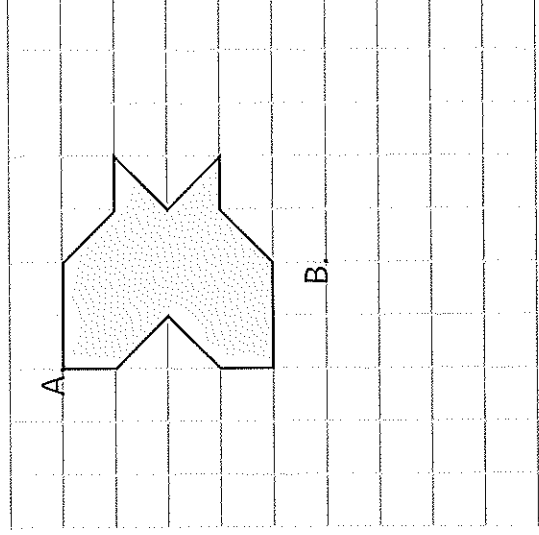
A farmer measures a fence to be 64.5m long and says to one of the farm workers, "The fence is 70m to the nearest 10m." Explain why the farmer is wrong and why the mistake may have been made.

## Section 6

Jenny and some friends watch a trilogy of films back to back with a break of 15 minutes between each. The films are 108, 124 and 87 minutes long. They start at 09:15. What time will they finish?

## Section 8

Translate this shape from point A to point B.



# Year 5 Spring 1 Maths Activity Mat 3 Answers

## Section 1

Complete these linear sequences:

5602	4602	3602	2602	1602
5668	5768	5868	5968	6068
13 889	23 889	33 889	43 889	53 889
20 467	20 367	20 267	20 167	20 067

## Section 2

Write a true statement and a false statement about prime numbers using the following:

2, 3, 5, 7, 11, 13, 17, 19

Answers will vary

## Section 3

Calculate:

$20 \times 0.6 = 12$

$500 \times 80 = 40\ 000$

$£0.40 \times 40 = £16$

$0.9 \times 0.11 = 0.1089$

## Section 4

Circle the fractions that are equivalent to the first fraction in each line:

$\frac{1}{2}$

$\frac{3}{6}$

$\frac{6}{16}$

$\frac{10}{20}$

$\frac{11}{24}$

$\frac{2}{3}$

$\frac{5}{6}$

$\frac{8}{12}$

$\frac{10}{15}$

$\frac{11}{16}$

$\frac{3}{5}$

$\frac{5}{8}$

$\frac{6}{10}$

$\frac{9}{15}$

$\frac{12}{20}$

## Section 5

64.5 rounded to the nearest 10 takes into account the 4 in 64 and rounds down to 60m. The farmer may have been confused by the 5 in 64.5 and rounded up to 70. Other answers may be acceptable.

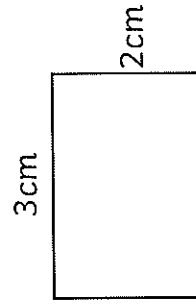
## Section 6

Jenny and some friends watch a trilogy of films back to back with a break of 15 minutes between each. The films are 108, 124 and 87 minutes long. They start at 09:15. What time will they finish?

15:04

## Section 7

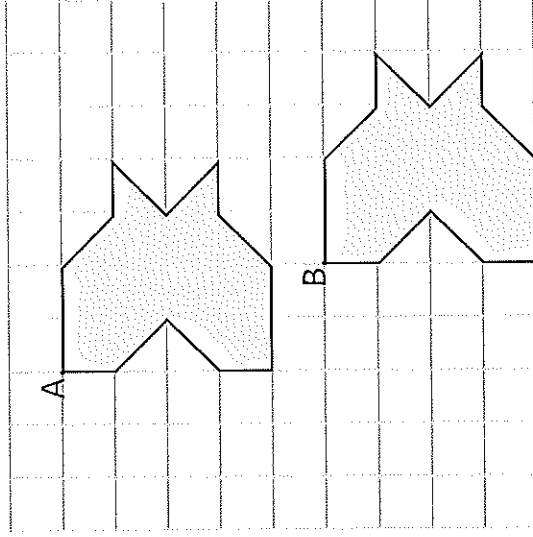
Use a ruler to draw a rectangle with a perimeter of 10cm and an area of 6cm<sup>2</sup>.



Other answers may be acceptable.

## Section 8

Translate this shape from point A to point B



# Year 5 Spring 1 Maths Activity Mat 4

## Section 1

Calculate:

$$8 + (-7) = \boxed{\phantom{00}}$$

$$-5 + 9 = \boxed{\phantom{00}}$$

$$6 - (-4) = \boxed{\phantom{00}}$$

$$6 - (-4) = \boxed{\phantom{00}}$$

## Section 2

A High Speed train has 6 coaches of 74 seats and 2 coaches of 48 seats. There are 12 trains each weekday and 9 trains a day each weekend day from Sheffield to London. How many seats are there on all the trains from Sheffield to London each week rounded to the nearest 1000?

## Section 5

Adjacent squares are added together to give the number above. Complete the number wall.

		87.86
	44.92	
		23.87

## Section 6

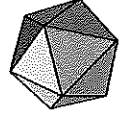
kg  $\approx$  2.2 lb,

How many grams in 1lb?

Give your answer to the nearest gram.

## Section 7

Write the name of these shapes.





## Section 3

Calculate:

$$58 \underline{\quad}$$

$$1 \underline{\quad} 7$$

$$+ \underline{\quad} 07$$

$$\underline{\quad} 426$$

## Section 4

Order the following fractions from smallest to largest.

$$\frac{4}{5} \quad \frac{21}{25} \quad \frac{11}{15} \quad \frac{23}{30}$$

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## Section 8

Children count the number of children who have a jacket potato each day.

Week	Number of children who have a jacket potato
Monday	13
Tuesday	24
Wednesday	19
Thursday	20
Friday	5

The kitchen bought 120 potatoes for the week.

How many potatoes were left over?

Why might the kitchen order only

100 potatoes the following week?

# Year 5 Spring 1 Maths Activity Mat 4 Answers

## Section 1

Calculate:

$8 + (-7) = 1$

$-5 + 9 = 4$

$6 - (-4) = 10$

## Section 2

A High Speed train has 6 coaches of 74 seats and 2 coaches of 48 seats. There are 12 trains each weekday and 9 trains a day each weekend day from Sheffield to London. How many seats are there on all the trains from Sheffield to London each week rounded to the nearest 1000?

42 000 seats

## Section 5

Adjacent squares are added together to give the number above. Complete the number wall.

		87.86
44.92	42.94	
25.85	19.07	23.87

## Section 6

kg  $\approx$  2.2 lb,

How many grams in 1lb?

Give your answer to the nearest gram.

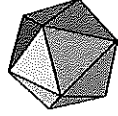
45g

## Section 7

Write the name of these shapes.



octagonal prism



icosahedron

## Section 3

Calculate:

$582$

$137$

$+ 707$

$\hline 1426$

## Section 4

Order the following fractions from smallest to largest.

$\frac{4}{5}$

$\frac{21}{25}$

$\frac{11}{15}$

$\frac{23}{30}$

$\frac{11}{15}$

$\frac{23}{30}$

$\frac{4}{5}$

$\frac{21}{25}$

## Section 8

Children count the number of children who have a jacket potato each day.

Week	Number of children who have a jacket potato
Monday	13
Tuesday	24
Wednesday	19
Thursday	20
Friday	5

The kitchen bought 120 potatoes for the week.

How many potatoes were left over?

39

Why might the kitchen order only

100 potatoes the following week?

answers will vary



# Year 5 Spring 1 Maths Activity Mat 5

## Section 1

Perform these calculations with Roman numerals without converting to numbers. Give the answers as a Roman numeral.

$$CCIX + CLXXVI =$$

$$CLXV - XCVI =$$

## Section 2

Write all the square numbers from  $1 \times 1$  to  $12 \times 12$ .

What happens when you add consecutive square numbers?

## Section 3

Calculate:

$$6 \_ 3$$

$$\times \quad \underline{\quad}$$

$$\underline{17 \ 444}$$

$$210$$

$$\underline{\quad} 4 \underline{\quad} 29 \underline{\quad} 0$$

## Section 4

Calculate:

$$\frac{1}{4} + \frac{5}{16} =$$

$$\frac{5}{6} - \frac{7}{12} =$$

## Section 5

Write the following fractions as percentages:

$$\frac{9}{20}$$

$$\frac{11}{25}$$

$$\frac{27}{50}$$

## Section 6

A bottle of energy drink contains 380ml drink. Packs contain six bottles. A box must not contain more than 10l of drink. What is the most number of packs that a box can contain?

## Section 7

Explain why a triangle cannot have 2 obtuse angles.

## Section 8

Lane swimming 1	07:00
Parent and toddler	10:00
Lane swimming 2	11:30
Adult lessons	12:45
Lane swimming 3	14:15
Leisure swim	15:45
Child lessons	17:00
Leisure swim	18:30
Lane swimming 4	20:00
Pool closes	21:30

Here is a swimming pool timetable.

A swimmer swims all the lane swimming lessons in a day and swims 870 lengths. On average, how long does each length take?

The pool is open for the same time each day, in length of time, for how many days (to the nearest day) is the pool open each week?

# Year 5 Spring 1 Maths Activity Mat 5 Answers

## Section 1

Perform these calculations with Roman numerals without converting to numerals. Give the answers as a Roman numeral.

$$CCIX + CLXXVI = \text{CCCLXXXV}$$

$$CLXV - XCVI = \text{LXIX}$$

## Section 2

Write all the square numbers from  $1 \times 1$  to  $12 \times 12$ .

1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144

What happens when you add consecutive square numbers?

all odd, difference increases by 4 each time.

## Section 3

Calculate:

623

$\times 28$

$\overline{17\ 444}$

210

$\overline{14\ 2940}$

## Section 4

Calculate:

$$\frac{1}{4} + \frac{5}{16} = \frac{9}{16}$$

$$\frac{5}{6} - \frac{7}{12} = \frac{3}{12} \text{ or } \frac{1}{4}$$

## Section 5

Write the following fractions as percentages:

$$\frac{9}{20} = 45\%$$

$$\frac{11}{25} = 44\%$$

$$\frac{27}{50} = 54\%$$

## Section 6

A bottle of energy drink contains 380ml drink. Packs contain six bottles. A box must not contain more than 10l of drink. What is the most number of packs that a box can contain?

4 packs is 9.12 litres

## Section 7

Explain why a triangle cannot have 2 obtuse angles.

If a triangle is attempted with 2 obtuse angles the 2 sides will not meet so the triangle cannot be drawn.

## Section 8

Lane swimming 1	07:00
Parent and toddler	10:00
Lane swimming 2	11:30
Adult lessons	12:45
Lane swimming 3	14:15
Leisure swim	15:45
Child lessons	17:00
Leisure swim	18:30
Lane swimming 4	20:00
Pool closes	21:30

Here is a swimming pool timetable.

A swimmer swims all the lane swimming lessons in a day and swims 870 lengths. On average, how long does each length take?

30 seconds

The pool is open for the same time each day, in length of time, for how many days (to the nearest day) is the pool open each week?

4 days (101.5 hours)

# Year 5 Spring 1 Maths Activity Mat 6

## Section 1

I am a three-digit odd number.

I have two less ones than hundreds, and both digits are prime numbers.

My tens digit is a square number and a cube number.

The sum of my digits is 13.

What am I?

## Section 2

Write the factor pairs of 42.

Write the common factors of 15 and 45.

## Section 3

Five children collect all the used pencils from classrooms. There are 132. They share those and another 13 packets of 12 pencils between 8 classrooms. How many pencils does each class receive?

A supermarket wants to rearrange some shelves of baked beans.

There are 90 tins on the shelves, and 8 boxes of 48 tins are brought out from the stock room. The tins are shared equally over 6 shelves. How many tins will be on each shelf?

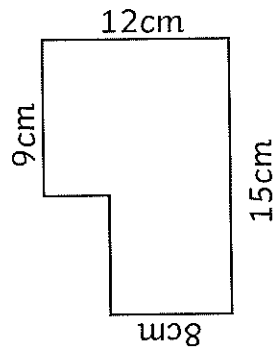
## Section 4

Calculate:

$$\frac{8}{3} \times 5 = \text{  }$$

## Section 6

What is the area of this composite rectilinear shape?



## Section 5

Ring the correct percentage to match the following fractions:

$\frac{1}{8}$       $\frac{3}{4}$       $\frac{2}{5}$

12.5%    80%    15%

30%    75%    40%

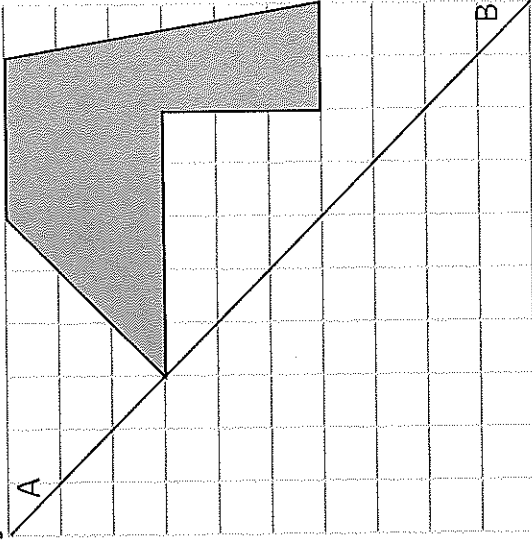
65%    80%    62.5%

## Section 7

Draw an angle of  $245^\circ$

## Section 8

Reflect this shape about the line AB



# Year 5 Spring 1 Maths Activity Mat 6 Answers

## Section 1

I am a three-digit odd number.

I have two less ones than hundreds, and both digits are prime numbers.

My tens digit is a square number and a cube number.

The sum of my digits is 13.

What am I?

715

## Section 2

Write the factor pairs of 42.

$1 \times 42, 2 \times 21,$   
 $3 \times 14, 6 \times 7$

Write the common factors of 15 and 45.

1, 3, 5, 15

## Section 3

Five children collect all the used pencils from classrooms. There are 132. They share those and another 13 packets of 12 pencils between 8 classrooms. How many pencils does each class receive?

A supermarket wants to rearrange some shelves of baked beans.

There are 90 tins on the shelves, and 8 boxes of 48 tins are brought out from the stock room. The tins are shared equally over 6 shelves. How many tins will be on each shelf?

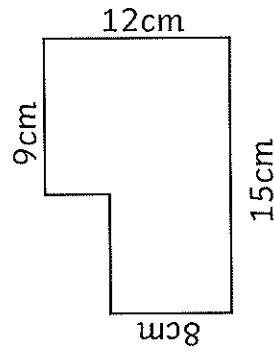
## Section 4

Calculate:

$$\frac{8}{3} \times 5 = 13 \frac{1}{3}$$

## Section 6

What is the area of this composite rectilinear shape?



156cm<sup>2</sup>

## Section 5

Ring the correct percentage to match the following fractions:

$\frac{1}{8}$

12.5%

80%

15%

$\frac{3}{4}$

30%

75%

40%

$\frac{5}{8}$

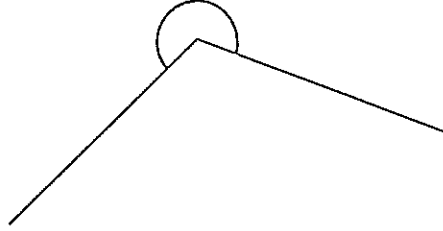
65%

80%

62.5%

## Section 7

Draw an angle of 245°



## Section 8

Reflect this shape about the line AB

