

Year 5 Spring 1 Maths Activity Mat 5

Section 1

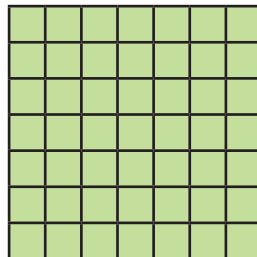
Write these Roman Numerals as numbers:

XXXVI

LXXIX

Section 2

What square number does this represent?



Section 3

Calculate:

$$\begin{array}{r} 209 \\ \times 5 \\ \hline \\ 3 \overline{)675} \end{array}$$

Section 4

Calculate:

$$\frac{3}{5} + \frac{1}{5} =$$

$$\frac{9}{10} - \frac{3}{10} =$$

Section 5

Write the following fractions as decimals:

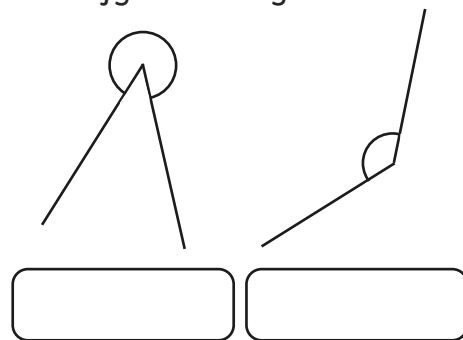
$\frac{9}{10}$

$\frac{4}{10}$

$\frac{1}{10}$

Section 7

Identify these 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

Use the swimming pool time table to answer these questions.

Which is the longest lane swimming session?

For how long are there swimming lessons?

Section 6

What is the total volume in litres of milk drink sold in a pack of seven 65ml cartons?



Year 5 Spring 1 Maths Activity Mat 5 Answers

Section 1

Write these Roman Numerals as numbers:

XXXVI

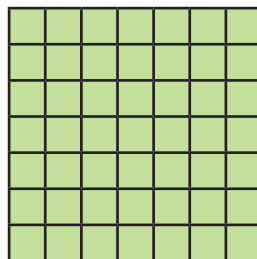
36

LXXIX

79

Section 2

What square number does this represent?



49

Section 3

Calculate:

$$\begin{array}{r} 209 \\ \times 5 \\ \hline 1045 \\ 225 \\ \hline 3 \overline{)675} \end{array}$$

Section 4

Calculate:

$$\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$$

$$\frac{9}{10} - \frac{3}{10} = \frac{6}{10} \text{ or } \frac{3}{5}$$

Section 5

Write the following fractions as decimals:

$\frac{9}{10}$

0.9

$\frac{4}{10}$

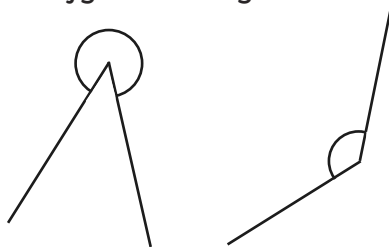
0.4

$\frac{1}{10}$

0.1

Section 7

Identify these angles:



reflex

obtuse

Section 6

What is the total volume in litres of milk drink sold in a pack of seven 65ml cartons?

0.455

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

Use the swimming pool time table to answer these questions.

Which is the longest lane swimming session?

lane swimming 1

For how long are there swimming lessons?

3 hours



Year 5 Spring 1 Maths Activity Mat 5

Section 1

Write these Roman Numerals as numbers:

CXLV

MCCXXI

Section 2

Write 3 square numbers in this way: $2 \times 2 = 4$

Section 3

Calculate:

$$\begin{array}{r} 417 \\ \times 13 \\ \hline \\ \hline 4 \overline{)2372} \end{array}$$

Section 4

Calculate:

$$\frac{3}{4} + \frac{5}{8} =$$

$$\frac{5}{6} - \frac{1}{3} =$$

Section 5

Write the following fractions as percentages:

$$\frac{13}{100}$$

$$\frac{45}{100}$$

$$\frac{78}{100}$$

Section 7

Draw and label an acute angle and a reflex angle

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

Use the swimming pool time table to answer these questions.

For how long is there lane swimming each day?

If every day has the same timetable, for how long are all the swimming lessons in one week?

Section 6

A bottle of juice contains 275ml of juice. How many litres does a pack of 4 bottles contain?



Year 5 Spring 1 Maths Activity Mat 5 Answers

Section 1

Write these Roman Numerals as numbers:

CXLV

145

MCCXXI

1221

Section 2

Write 3 square numbers in this way: $2 \times 2 = 4$

various answers:
e.g. $3 \times 3 = 9$, $4 \times 4 = 16$

Section 3

Calculate:

$$\begin{array}{r} 417 \\ \times 13 \\ \hline 5421 \\ 493 \\ \hline 4 \overline{)2372} \end{array}$$

Section 4

Calculate:

$$\frac{3}{4} + \frac{5}{8} = \frac{11}{8} \text{ or } 1\frac{3}{8}$$

$$\frac{5}{6} - \frac{1}{3} = \frac{1}{2} \text{ or } \frac{3}{6}$$

Section 5

Write the following fractions as percentages:

$$\frac{13}{100} = 13\%$$

$$\frac{45}{100} = 45\%$$

$$\frac{78}{100} = 78\%$$

Section 7

Draw and label an acute angle and a reflex angle

answers will vary

Section 6

A bottle of juice contains 275ml of juice. How many litres does a pack of 4 bottles contain?

1.1l

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

Use the swimming pool time table to answer these questions.

For how long is there lane swimming each day?

7 hours 15 minutes

If every day has the same timetable, for how long are all the swimming lessons in one week?

21 hours

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 1×1 to 12×12 .

What happens when you add consecutive square numbers?

Section 3

Calculate:

$$\begin{array}{r} 6_3 \\ \times \quad 2_ \\ \hline 17\ 444 \\ \hline 210 \\ \hline _4\overline{)29_0} \end{array}$$

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 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?

Section 7

Explain why a triangle cannot have 2 obtuse angles.

Section 1

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

$CCIX + CLXXVI =$ CCCLXXXV

$CLXV - XCVI =$ LXIX

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

CCIX + CLXXVI =

CCCLXXXV

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

LXIX

Write all the square numbers
from 1×1 to 12×12 .

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.

$$\begin{array}{r} 623 \\ \times 28 \\ \hline 17444 \\ \hline \end{array}$$
$$\frac{1}{4} + \frac{5}{16} = \left[\frac{9}{16} \right]$$

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

Write the following fractions as percentages:

$\frac{9}{20}$	45%
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$\frac{11}{25}$	44%
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$$\frac{27}{50} \quad 54\%$$

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

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

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)

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.