

Perimeter

ACTIVITY OVERVIEW

ACTIVITY 1

Squares

ACTIVITY 2

Rectangles

ACTIVITY 3

Triangles

ACTIVITY 4

Circles

ACTIVITY 5

Hexagons

ACTIVITY 6

Octagons

ACTIVITY 7

Ellipses

ACTIVITY 8

Trapeziums

ACTIVITY 9

Your own activity

Perimeter

ACTIVITY 7

ELLIPSES

1



The circumference of this ellipse has 2 arcs on it and each arc has a length of 3mm

The circumference of this ellipse is _____ mm

2



The circumference of this ellipse is 21cm and it has 3 arcs on it

The length of each arc is _____ cm

3



The circumference of this ellipse has 4 arcs on it and each arc has a length of 60m

The circumference of this ellipse is _____ m

4



The circumference of this ellipse is 150km and it has 5 arcs on it

The length of each arc is _____ km

5



25% of the circumference of this ellipse is 6mm

The total circumference of this ellipse is _____ mm

6



2% of the circumference of this ellipse is 50cm

The total circumference of this ellipse is _____ cm

7



5% of the circumference of this ellipse is 71m

The total circumference of this ellipse is _____ m

8



50% of the circumference of this ellipse is 175km

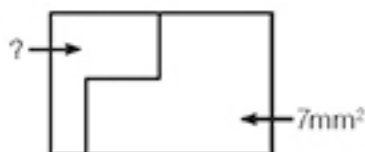
The total circumference of this ellipse is _____ km

Area

ACTIVITY 2

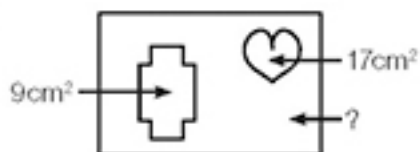
RECTANGLES

1



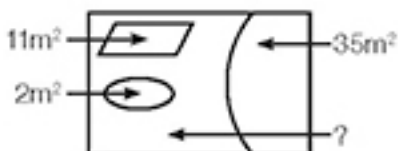
The area of this rectangle is 11mm^2
The area of the unmarked section
of this rectangle is _____ mm^2

2



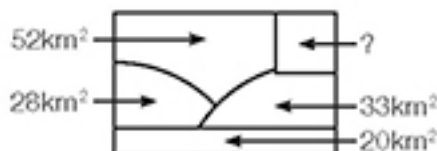
The area of this rectangle is 50cm^2
The area of the unmarked section
of this rectangle is _____ cm^2

3



The area of this rectangle is 96m^2
The area of the unmarked section
of this rectangle is _____ m^2

4



The area of this rectangle is 160km^2
The area of the unmarked section
of this rectangle is _____ km^2

5



50% of the area of
this rectangle is 14mm^2
The total area of
this rectangle is _____ mm^2

6



1% of the area of
this rectangle is 29cm^2
The total area of
this rectangle is _____ cm^2

7



2% of the area of
this rectangle is 60m^2
The total area of
this rectangle is _____ m^2

8



25% of the area of
this rectangle is 180km^2
The total area of
this rectangle is _____ km^2

Volume

ACTIVITY 8

CLOUDS

1



The volume of this cloud is cut into two equal sections

The volume of each section of this cloud is _____ mm^3

2



The volume of this cloud is cut into three equal sections

The volume of each section of this cloud is _____ cm^3

3



The volume of this cloud is cut into four equal sections

The volume of each section of this cloud is _____ m^3

4



The volume of this cloud is cut into five equal sections

The volume of each section of this cloud is _____ km^3

5



4% of the volume of this cloud is 4mm^3

The total volume of this cloud is _____ mm^3

6



5% of the volume of this cloud is 30cm^3

The total volume of this cloud is _____ cm^3

7



10% of the volume of this cloud is 45m^3

The total volume of this cloud is _____ m^3

8



20% of the volume of this cloud is 121km^3

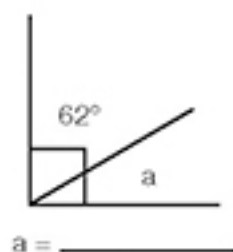
The total volume of this cloud is _____ km^3

Angles

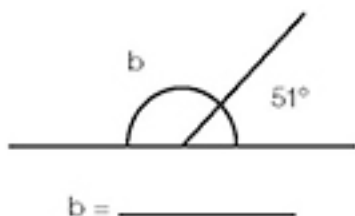
ACTIVITY 2

COMPLIMENTARY TYPES

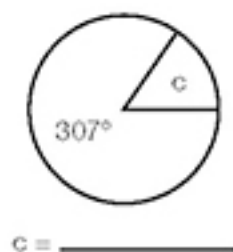
1



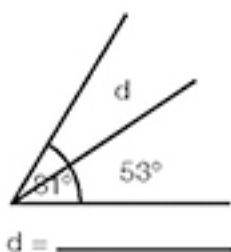
2



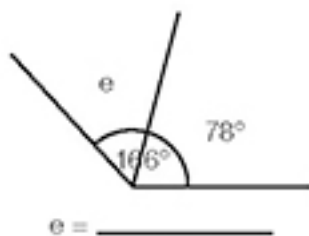
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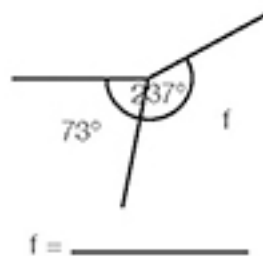
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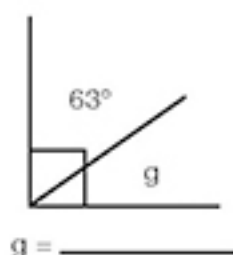
5



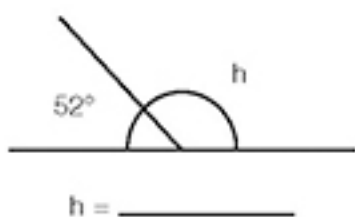
6



7



8

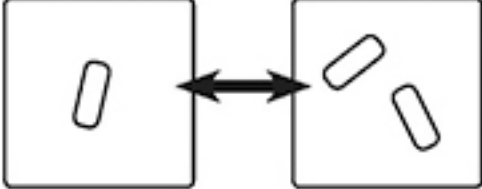


Ratios

ACTIVITY 3

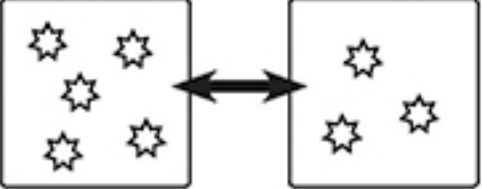
FINDING THE RATIO IN OTHER SITUATIONS

1



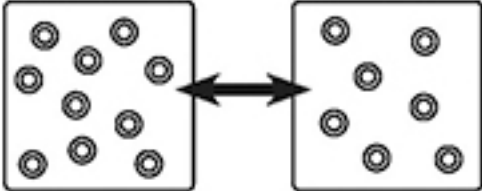
The ratio shown in this situation	
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2



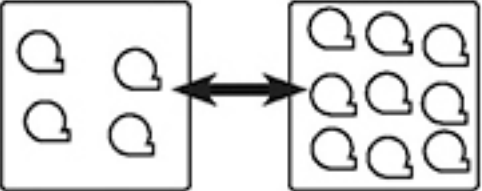
The ratio shown in this situation	
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3



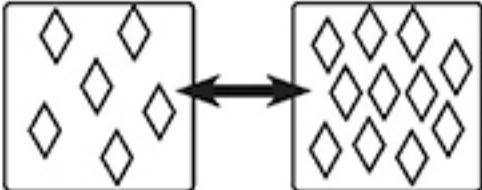
The ratio shown in this situation	
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4



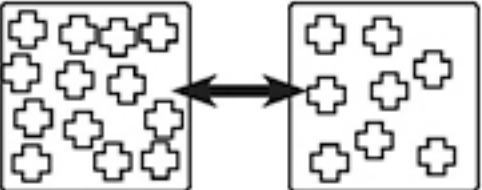
The ratio shown in this situation	
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5



The ratio shown in this situation	
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6



The ratio shown in this situation	
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Comparing Fractions and Percentages

ACTIVITY 4

JOINING THE EQUIVALENT PAIR TOGETHER - SET 2

1

Fraction	→	Percentage
$\frac{1}{2}$		10%
$\frac{1}{3}$		21%
$\frac{1}{4}$		50%

2

Percentage	→	Fraction
$\frac{1}{5}$		32%
25%		$\frac{1}{6}$
43%		$\frac{1}{4}$

3

Fraction	→	Percentage
$\frac{1}{7}$		20%
$\frac{1}{8}$		65%
$\frac{1}{5}$		54%

4

Percentage	→	Fraction
$\frac{1}{10}$		10%
87%		$\frac{1}{12}$
76%		$\frac{1}{10}$

5

Fraction	→	Percentage
$\frac{1}{21}$		98%
5%		$\frac{1}{22}$
12%		$\frac{1}{20}$

6

Percentage	→	Fraction
$\frac{1}{27}$		34%
45%		$\frac{1}{25}$
4%		$\frac{1}{26}$

7

Fraction	→	Percentage
$\frac{1}{51}$		56%
2%		$\frac{1}{52}$
67%		$\frac{1}{50}$

8

Percentage	→	Fraction
$\frac{1}{5}$		78%
89%		$\frac{1}{6}$
75%		$\frac{3}{4}$

9

Fraction	→	Percentage
$\frac{1}{9}$		15%
40%		$\frac{2}{5}$
26%		$\frac{3}{7}$

Financial Maths

ACTIVITY 1

WORKING AND EARNING

1

John worked for 3 hours.
He earned \$15 per hour.

His pay was \$_____.

Simone worked for $6\frac{1}{2}$ hours. She earned \$21 per hour.

Her pay was \$_____.

Robert worked for 11 hours. He earned \$35 per hour.

His pay was \$_____.

Marcella worked for 20 hours. She earned \$40 per hour.

Her pay was \$_____.

David worked for 15 hours. He earned \$55.50 per hour.

His pay was \$_____.

Angelina worked for 9 hours. She earned \$60 per hour.

Her pay was \$_____.

2

Cindy worked for 4 days.
She earned \$100 per day.

Her pay was \$_____.

Kevin worked for $7\frac{1}{2}$ days. He earned \$280 per day.

His pay was \$_____.

Kyra worked for 15 days.
She earned \$355 per day.

Her pay was \$_____.

Andrew works for 12 days.
He earned \$405 per day.

His pay was \$_____.

Georgina worked for 2 days. She earned \$500.50 per day.

Her pay was \$_____.

Limahl worked for 23 days.
He earned \$610 per day.

His pay was \$_____.

3

Ben worked for 2 weeks.
He earned \$450 per week.

His pay was \$_____.

Kelly worked for $12\frac{1}{2}$ weeks. She earned \$510 per week.

Her pay was \$_____.

Harold worked for 4 weeks.
He earned \$675 per week.

His pay was \$_____.

Giselle worked for 15 weeks. She earned \$700 per week.

Her pay was \$_____.

Wilhelm worked for 7 weeks. He earned \$880.50 per week.

His pay was \$_____.

Olivia worked for 10 weeks. She earned \$910 per week.

Her pay was \$_____.

Miscellaneous Themes

ACTIVITY 3

SPECIALISED PATTERNS

1

What are the next 3 items in the pattern?

A12

B24

C36

Z300

Y250

X200

2

What are the next 3 items in the pattern?

D25

F50

H75

T912

R910

P908

3

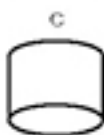
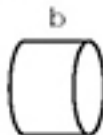
What is the next shape in each pattern?

a

b

c

d



a

b

c

d

4

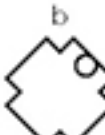
What is the next shape in each pattern?

a

b

c

d



a

b

c

d

5

What is the next number in each pattern?

50

55

65

80

200

150

110

80

6

What is the next letter in each pattern?

a

e

i

m

z

w

t

q

7

Can you fill in the gaps in the pattern?

10

$10\frac{1}{2}$

$10\frac{2}{5}$

11

12

21

$20\frac{1}{2}$

20

17