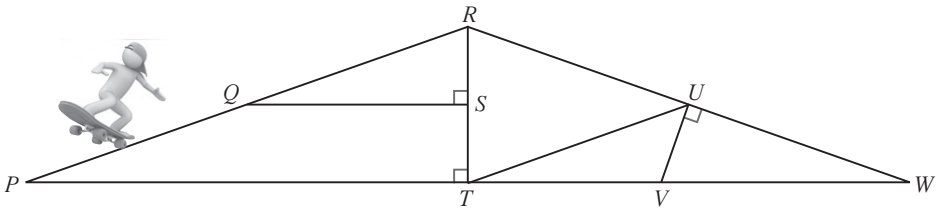
Mathletics

Holiday Review - Year Seven

Angles:

Fill in the table below with four angles you can find matching the types in the diagram below:

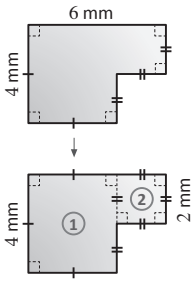


Acute angle	Right angle	Obtuse angle	Straight angle	Reflex angle
$\angle RQS$	$\angle RSQ$	$\angle PRW$	$\angle PQR$	reflex $\angle PRW$

Area and Perimeter:

Complete the area calculations for these shaded shapes:

a

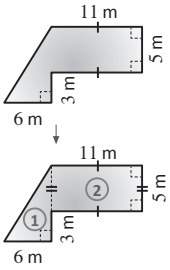


Area ① = ____ mm × ____ mm = ____ mm²

Area ② = ____ mm × ____ mm = ____ mm²

∴ Composite area = ① + ② mm² = ____ mm²

b



Area ① = ____ × ____ × ____ m² = ____ m²

Area ② = ____ × ____ m² = ____ m²

∴ Composite area = ① + ② m² = ____ m²

Mathletics

Holiday Review - Year Seven

Converting Units:

Draw lines connecting the matching mass measurements below.

4000 g			4 g
40 kg			400 kilograms
0.400 t			4 kg
400 g			0.4 kg
0.40 mg			40 mg
4000 t			0.04 Mg
0.004 kg			$4 \div 10^7$ kg
40 000 mg			40 grams
0.04 g			4×10^9 grams

A 1 3 2 V 6 S M 4 S E 7 I 5

1	2	3	4	5	6	7

Algebra Basic:

Draw lines to match each table of values with the correct matching rule.

a	0	2	4	6	8
b	2	3	4	5	6

a	1	2	3	4	5
b	1	6	11	16	21

a	0	1	2	3	4
b	0	3	6	9	12

a	0	1	2	3	4
b	3	5	7	9	11

- $b = 2a + 3$
- $b = \frac{a+4}{2}$
- $b = 3a$
- $b = 5a - 4$

Have a go at figuring out the rule used for each table of values below and fill in the gaps.

a Rule:

x	0	1	2	3	4
y	5	6			9

b Rule:

m	0	1	2	3	4
n	0	4		12	

c Rule:

p	0	1	2	3	4
q	-3		-1		1

d Rule:

c		1		5	6
d	-5	-1	3		19

Mathletics

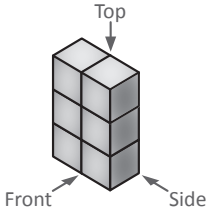
Holiday Review - Year Seven

Solids:

Each of these solids were formed using six cubes only.

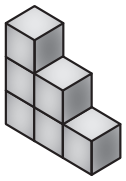
Draw the front, top and side views for each one.

a



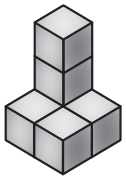
Front	Top	Side

b



Front	Top	Side

c



Front	Top	Side