

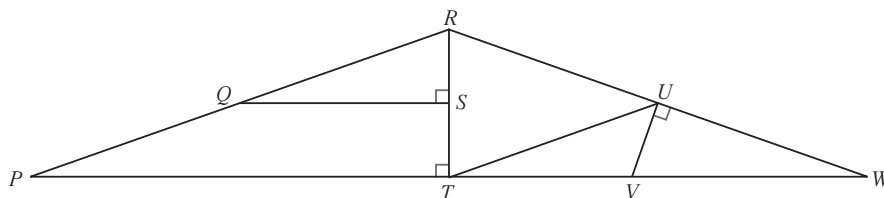
Review Task

Year 7

Mathletics

Angles:

Angle types



Acute angle	Right angle	Obtuse angle	Straight angle	Reflex angle
$\angle RQS$ or $\angle SQR$ $\angle QPT$ or $\angle TPQ$ $\angle QRS$ or $\angle SRQ$ $\angle RTU$ or $\angle UTR$ $\angle URS$ or $\angle SRU$ $\angle RUT$ or $\angle TUR$ $\angle UTV$ or $\angle VTU$ $\angle TUV$ or $\angle VUT$ $\angle UVW$ or $\angle WVU$ $\angle UWV$ or $\angle VWU$	$\angle RSQ$ or $\angle QSR$ $\angle QST$ or $\angle TSQ$ $\angle PTS$ or $\angle STP$ $\angle RTW$ or $\angle WTR$ $\angle RUV$ or $\angle VUR$ $\angle VUW$ or $\angle WUV$	$\angle PRW$ or $\angle WRP$ $\angle PQS$ or $\angle SQP$ $\angle PTU$ or $\angle UTP$ $\angle TUW$ or $\angle WUT$ $\angle TVU$ or $\angle UVT$	$\angle PQR$ or $\angle RQP$ $\angle RST$ or $\angle TSR$ $\angle PTV$ or $\angle VTP$ $\angle TVW$ or $\angle WVT$ $\angle RUW$ or $\angle WUR$	Reflex ($\angle PRW$ or $\angle WRP$) Reflex ($\angle RQS$ or $\angle SQR$) Reflex ($\angle QRS$ or $\angle SRQ$) Reflex ($\angle QST$ or $\angle TSQ$) Reflex ($\angle QSR$ or $\angle RSQ$) Reflex ($\angle STP$ or $\angle PTS$) Reflex ($\angle SRW$ or $\angle WRS$) Reflex ($\angle STU$ or $\angle UTS$) Reflex ($\angle UTV$ or $\angle VTU$) Reflex ($\angle STV$ or $\angle VTS$) Reflex ($\angle TUW$ or $\angle WUT$) Reflex ($\angle TUV$ or $\angle VUT$) Reflex ($\angle TVU$ or $\angle UVT$) Reflex ($\angle WVU$ or $\angle UVW$) Reflex ($\angle UWV$ or $\angle VWU$) Reflex ($\angle SRU$ or $\angle URS$) Reflex ($\angle RUT$ or $\angle TUR$) Reflex ($\angle PQS$ or $\angle SQP$) Reflex ($\angle QPT$ or $\angle TPQ$)

Getting 5 correct from this list is a good effort

Area and Perimeter:

Area of composite shapes

a Area ① = $4 \text{ mm} \times 4 \text{ mm}$ Area ② = $2 \text{ mm} \times 2 \text{ mm}$
 $= 16 \text{ mm}^2$ $= 4 \text{ mm}^2$
 $\therefore$ Composite area = $16 + 4 \text{ mm}^2$
 $= 20 \text{ mm}^2$

b Area ① = $0.5 \times 6 \times 8 \text{ m}^2$ Area ② = $11 \times 5 \text{ m}^2$
 $= 24 \text{ m}^2$ $= 55 \text{ m}^2$
 $\therefore$ Composite area = $24 + 55 \text{ m}^2$
 $= 79 \text{ m}^2$

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Converting Units:

Combo time!

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 4×10^9 grams

0.04 g

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

Algebra Basic:

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

$b = 2a + 3$

$b = \frac{a + 4}{2}$

$b = 3a$

$b = 5a - 4$

a Rule: $y = x + 5$

x	0	1	2	3	4
y	5	6	7	8	9

b Rule: $n = 4 \times m$ or $n = 4m$

m	0	1	2	3	4
n	0	4	8	12	16

c Rule: $q = p - 3$

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

d Rule: $d = 4c - 5$

c	0	1	2	5	6
d	-5	-1	3	15	19

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Solids:

Different views of solids

