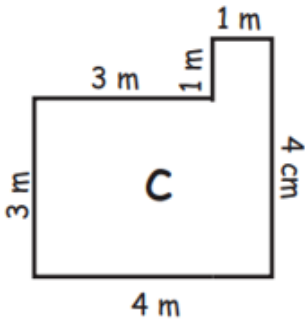
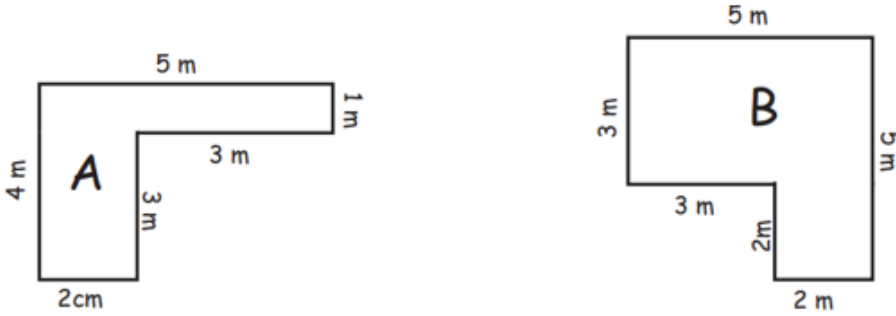


Group A – Maths

W/b 01.02.21

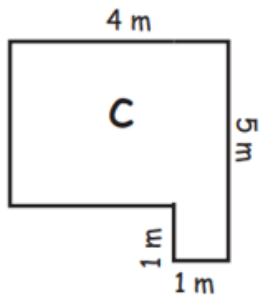
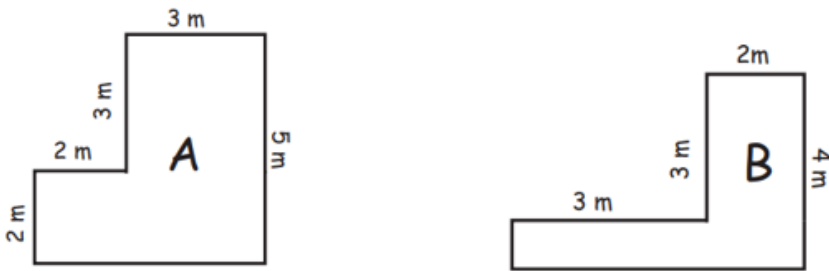
TUESDAY- Can I calculate the area and perimeter of compound shapes?

For each set of rooms, can you work out which has the longest perimeter and the largest area?



Room _____ has the longest perimeter.

Room _____ has the largest area.

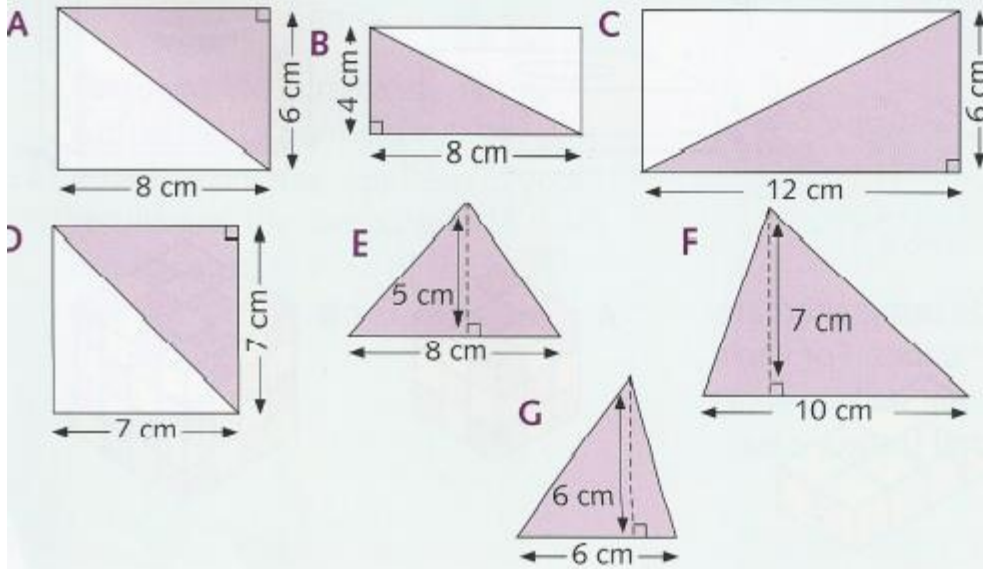


Room _____ has the longest perimeter.

Room _____ has the largest area.

WEDNESDAY - Can I calculate the area of triangles and parallelograms?

1 Calculate the area of each purple triangle using the rule $A = \frac{1}{2} bh$.



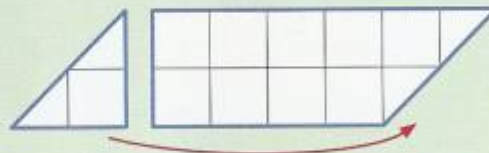
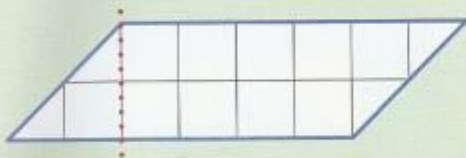
Example

$A = \frac{1}{2} (10 \times 4) \text{ cm}^2$
 $= 20 \text{ cm}^2$

Rule

Finding the area of parallelograms:

- Cut a right-angled triangle from one end of the parallelogram.
- Slide the triangle to the other side of the parallelogram to make a rectangle.



- The parallelogram now has the same base and height as the rectangle. So you can use the rule $A = bh$.

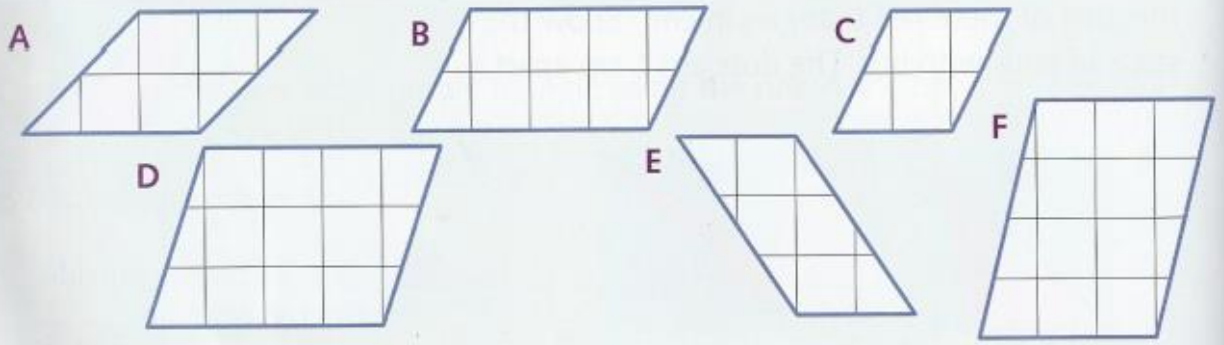


$A = bh$
 $= (6 \times 2) \text{ cm}^2$
 $= 12 \text{ cm}^2$

Challenge

1

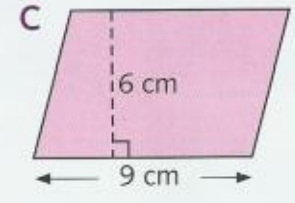
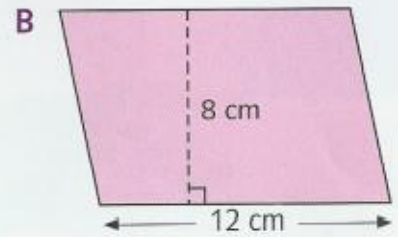
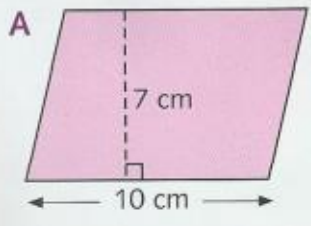
Find the area of each parallelogram in cm^2 . Each grid square is 1 cm across.



Challenge

2

1 Calculate the area of each parallelogram using the rule $A = bh$.



Arithmetic Code Breaker

Use the code breaker to reveal some WW2: The Home Front key words.

a	b	c	d	e	f	g	h	i	j	k	l	m
72	7.86	1/10	6.7	12	19	300	100	49	3	8.01	24	99

n	o	p	q	r	s	t	u	v	w	x	y	z
121	81	1	1001	6	9	69	2308	3/10	5/6	2610	2	3744

	Answer	Letter
0.6×10		
0.072×1000		
0.69×100		
$4900 \div 100$		
8.1×10		
$1210 \div 10$		
3^2		

	Answer	Letter
40 % of 30		
$3/5 \times 1/2$		
3/4 of 96		
$2/5 \div 4$		
$3208 - 900$		
$1008 \div 14$		
3×23		
7^2		
9^2		
11^2		

	Answer	Letter
$1656 \div 23$		
4% of 600		
75 % of 32		
$9800 \div 200$		
$252 \div 21$		
$135 \div 15$		

	Answer	Letter
$786 \div 100$		
$288 \div 12$		
20 % of 245		
3/5 of 115		
156×24		

	Answer	Letter
9% of 800		
58×45		
$7877 - 7828$		
$387 \div 43$		

Friday – Rationing (see separate sheet)

ANSWERS - TUESDAY & WEDNESDAY

TUESDAY

$$A1) P = 18m \quad A = 11m^2$$

$$B1) P = 20m \quad A = 19m^2$$

$$C1) P = 16m \quad A = 13m^2$$

Room B has the longest perimeter.

Room B has the largest Area.

$$A2) P = 20m \quad A = 19m^2$$

$$B2) P = 18m \quad A = 11m^2$$

$$C2) P = 18m \quad A = 21m^2$$

Room A has the longest perimeter.

Room C has the largest Area.

WEDNESDAY

1 – Triangles

$$A = 23 \text{ cm}^2$$

$$B = 18 \text{ cm}^2$$

$$C = 36 \text{ cm}^2$$

$$D = 24.5 \text{ cm}^2$$

$$E = 20 \text{ cm}^2$$

$$F = 35 \text{ cm}^2$$

$$G = 18 \text{ cm}^2$$

Parallelograms

Ch 1

$$A = 6 \text{ cm}^2$$

$$B = 8 \text{ cm}^2$$

$$C = 4 \text{ cm}^2$$

$$D = 12 \text{ cm}^2$$

$$E = 6 \text{ cm}^2$$

$$F = 12 \text{ cm}^2$$

Ch2

$$A = 70 \text{ cm}^2$$

$$B = 96 \text{ cm}^2$$

$$C = 54 \text{ cm}^2$$