

## Colin and Coco's Daily Maths Workout



## Workout 5.13

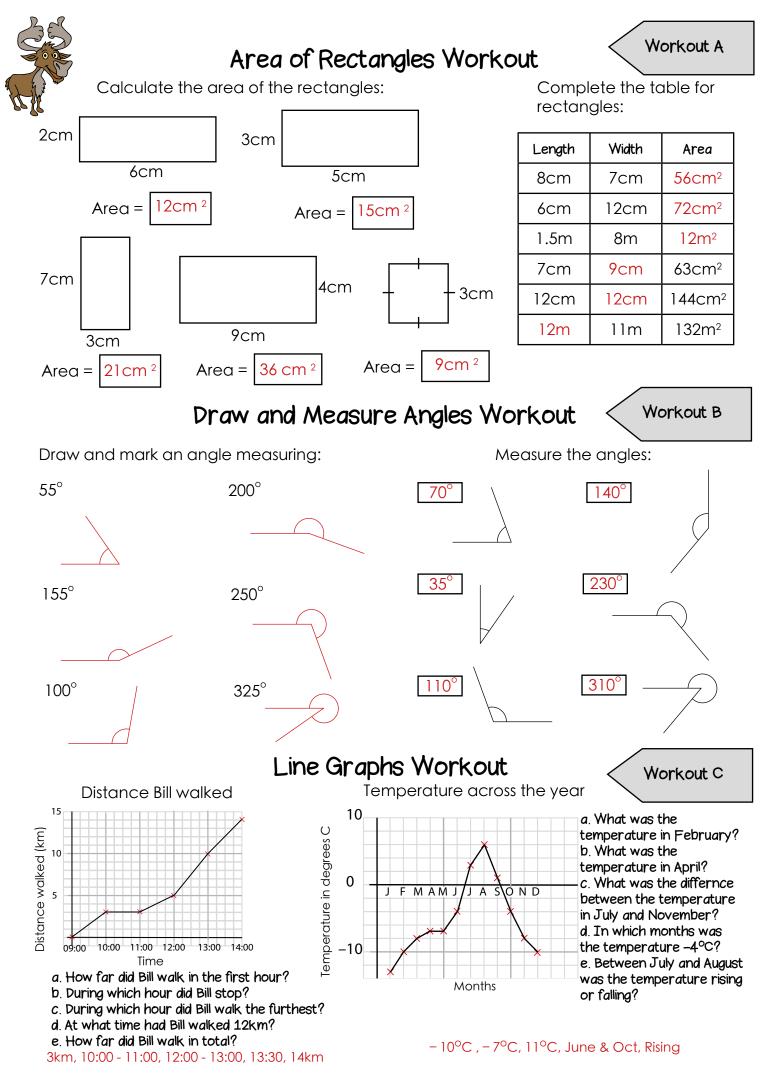
## Answers

KeeP-uppI (Term 6)



KPIs for Term 5

Calculate the area of rectangles Draw given angles, and measure them, in degrees (°) Interpret line graphs



Workout D

You need: (print off the cards) Blank piece of paper for each player. Card Set for each player.

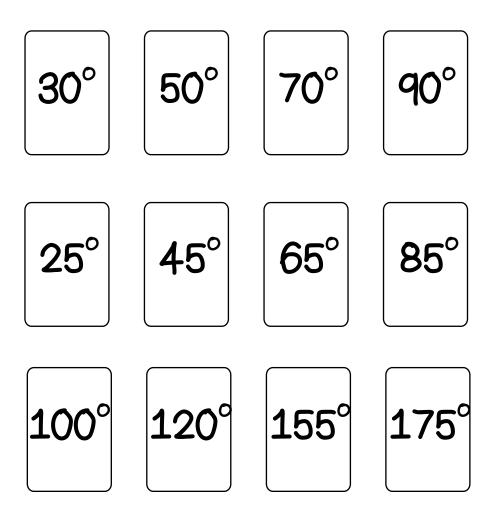
To play:

Each player starts with a 5cm horizontal line at the bottom of their page. Each card set is shuffled and placed face down. Each player picks one card and draws that angle from the end of their line. Each line a player draws must be 5cm long. Each player picks a second card and draws that angle from the end of their new line. Players keep picking cards to zig zag up the page.

To win:

The player who reaches the top of the page first wins one point. The first player to get 10 points wins the Game.

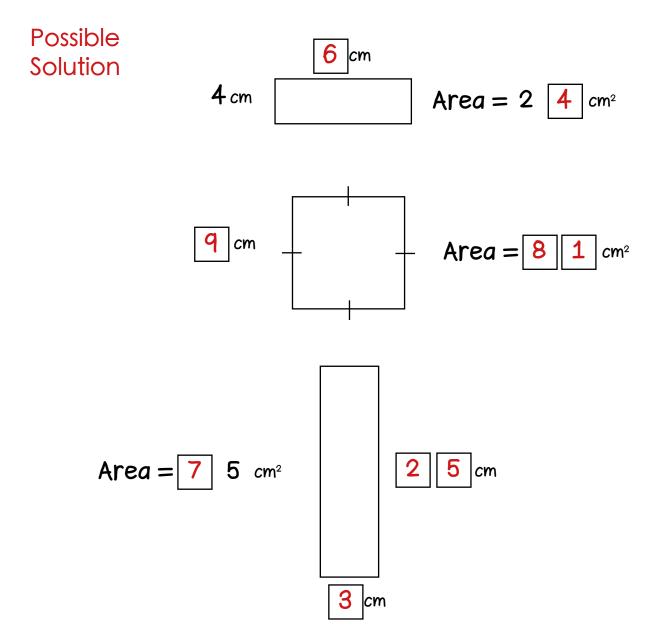
Card Set:





Put digits in the empty boxes to make the diagrams correct.

Complete them in several different ways, where possible.



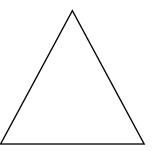
Are there any boxes that it is impossible to put a digit in? Why?

Are there any boxes that could have any of the digits in them?

Now try to complete both calculations together using the digits 1, 2, 3, 4, 5, 6, 7, 8 and 9 once each.

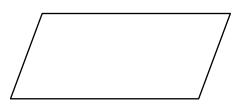






- Draw a triangle with 3 acute angles.
- Measure all the angles.
- Find the sum of the angles.
- Repeat for other triangles with 3 acute angles.
- What do you notice?

Investigate for triangles with obtuse angles.



- Draw a parallelogram.
- Measure all the angles.
- Find the sum of the angles.
- Repeat for other parallelograms.
- What do you notice?

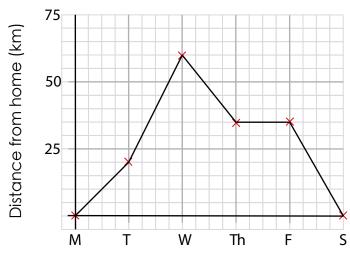
Investigate for other quadrilaterals.

Investigate for other polygons.



## Word Problem Workout Area and Line Graphs

1. Graph to show the distance Colin is from home on his cycle trip at the start of each day.



a. How far from home is Colin at the start of Tuesday?

b. On which day does Colin have a rest?

c. During which day does Colin cycle the furthest?

d. During which days is Colin 40km from home?

20km, Thursday, Tuesday, Tues & Wed

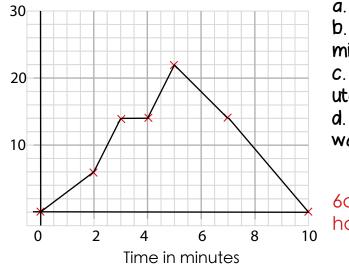
2. Colin has 14 two metre fence panels. He fixes them in a line or at right angles to each other. What is the largest area he can enclose?

6m x 8m = 48 sq m

3. Coco is creating a square patio. She has a delivery of 90 square slabs. Each slab has 60cm long. What is the area of the biggest patio Coco can create?

> 29,160 sq cm or 29.16 sq m

4. Graph to show the depth of water in a bath over 10 minutes.



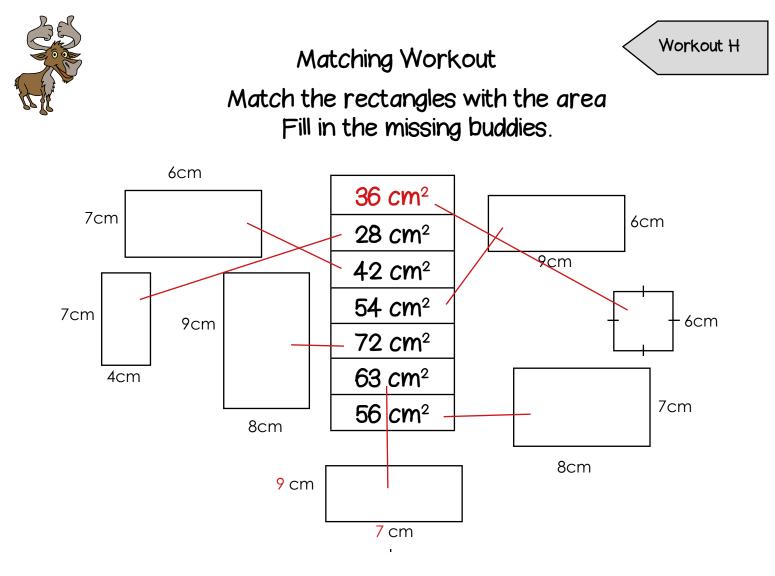
a. How deep is the water after 2 minutes?
b. How much deeper is the water after 5 minutes than it is after 3 minutes?
c. What happens between 3 and 4 minutes?

d. At what numbers of minutes is the water 18cm deep?

6cm, 8cm, tap turned off, 4 and a half & 6 minutes

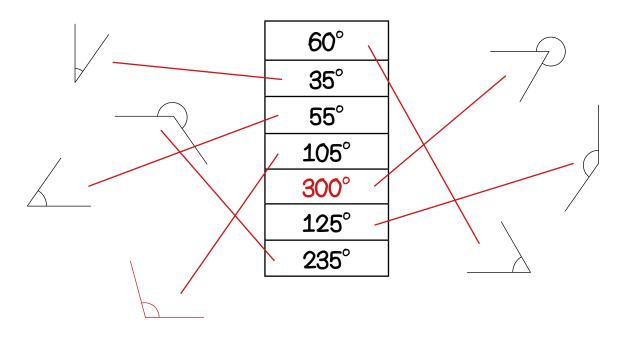
Create your own word problems involving area and line graphs.

**Depth** (cm)



Match the angles.

Fill in the missing value and draw the missing angle.



Create your own Matching Workouts.