

Name	
Form	
Teacher	

Maths

Homework Booklet

Year 9 Spring 2

Set 4,5

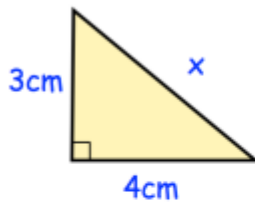
Topic	Score achieved	Sparx %
1. Pythagoras	/6	%
2. Congruency	/12	%
3. Measuring angles	/8	%
4. Product of prime factors	/7	%
5. Lowest Common Multiple	/14	%
6. Highest Common Factor	/14	%



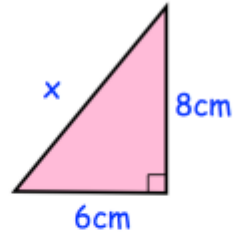
Week 1

Question 1: For each right angle triangle below, work out x

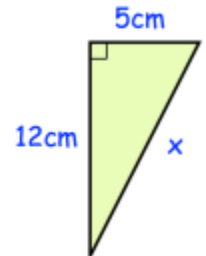
(a)



(b)

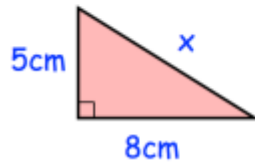


(c)

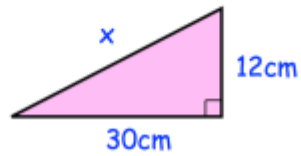


Question 2: Calculate x
Give each answer to 2 decimal places.

(a)



(b)



(c)



Sparx – Homework Answers



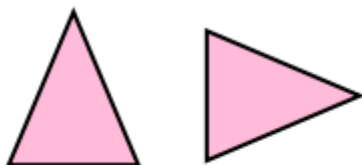
Week 2

Question 1: For each pair of shapes, state whether they are congruent or not congruent

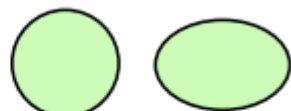
(a)



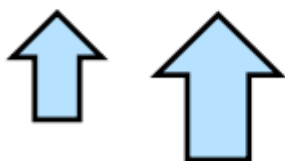
(b)



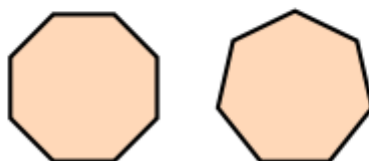
(c)



(d)



(e)

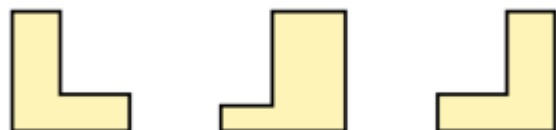


(f)



Question 2: Write down the shape that is not congruent to the others

(a)



A

B

C

(b)



A

B

C

(c)



A

B

C

(d)



A

B

C

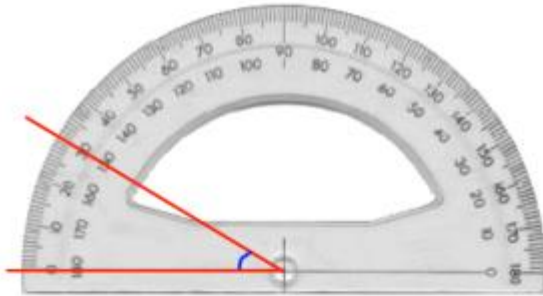
Sparx – Homework Answers



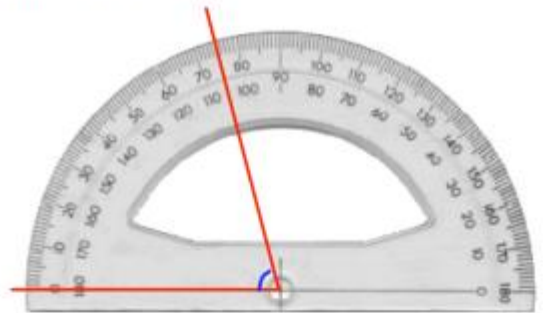
Week 3

Question 1: Write down the size of each angle being measured

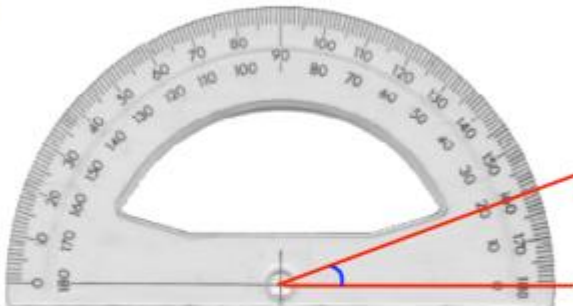
(a)



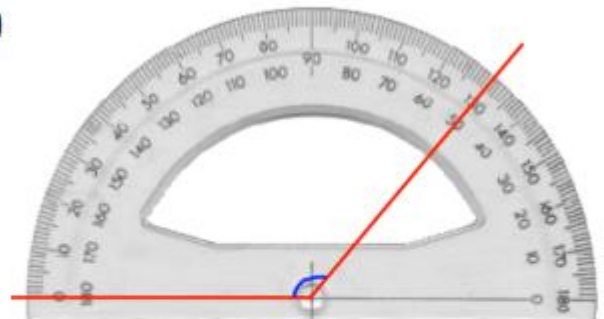
(b)



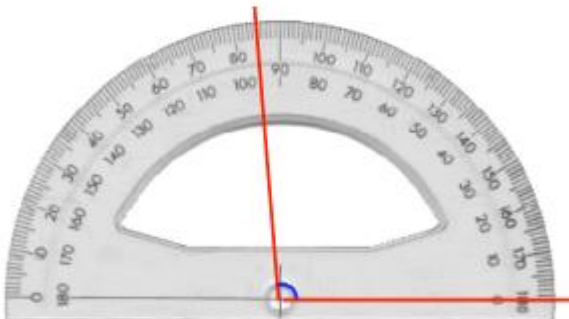
(c)



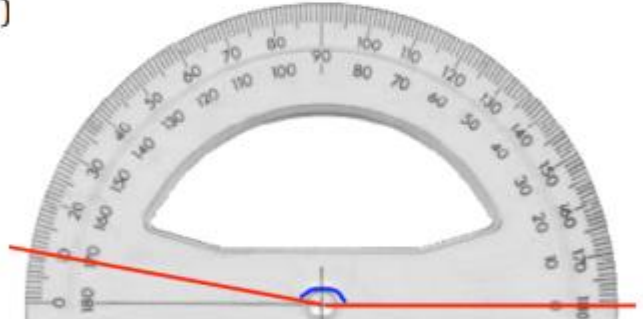
(d)



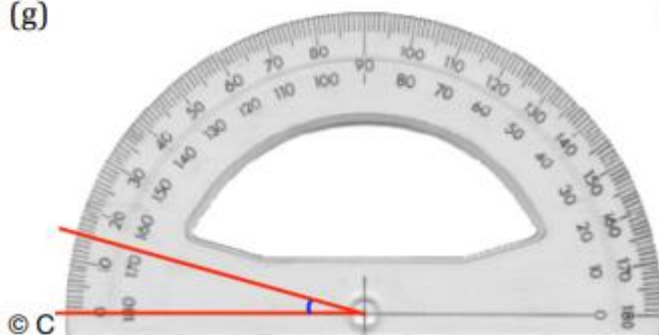
(e)



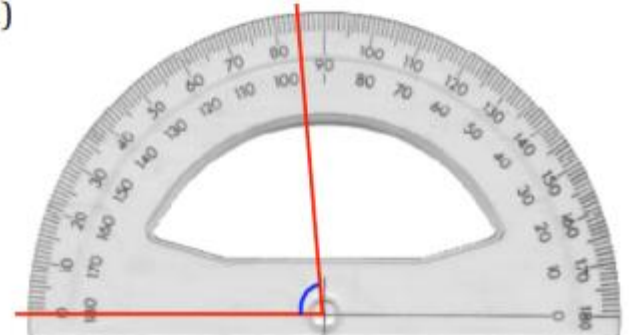
(f)



(g)



(h)



Sparx – Homework Answers



Week 4

Question 1: Write each of these numbers as the product of their prime factors.

- (a) 10 (b) 12 (c) 20 (d) 18 (e) 16 (f) 30 (g) 100

Sparx – Homework Answers



Week 5

- Question 1:
- (a) Write down the first ten multiples of 2.
 - (b) Write down the first ten multiples of 3.
 - (c) List the first three common multiples of 2 and 3.

- Question 2:
- (a) Write down the first ten multiples of 4.
 - (b) Write down the first ten multiples of 5.
 - (c) List the first three common multiples of 4 and 5.

Question 3: Write down three common multiples of each of these pairs of numbers.

- | | | | |
|---------------|-------------|-------------|---------------|
| (a) 2 and 5 | (b) 3 and 4 | (c) 4 and 6 | (d) 10 and 15 |
| (e) 20 and 30 | (f) 3 and 5 | (g) 6 and 9 | (h) 6 and 12 |

Sparx – Homework Answers



Week 6

- Question 1:
- (a) List all the factors of 10
 - (b) List all the factors of 15
 - (c) Write down all the common factors of 10 and 15.

- Question 2:
- (a) List all the factors of 12
 - (b) List all the factors of 18
 - (c) Write down all the common factors of 12 and 18.

Question 3: Write down all the common factors of each of these pairs of numbers.

- | | | | |
|---------------|---------------|---------------|---------------|
| (a) 6 and 8 | (b) 15 and 20 | (c) 9 and 15 | (d) 7 and 14 |
| (e) 30 and 40 | (f) 21 and 27 | (g) 18 and 30 | (h) 16 and 24 |

Sparx – Homework Answers