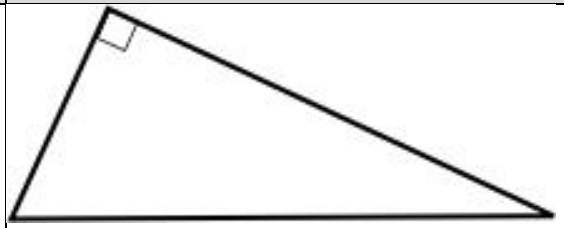
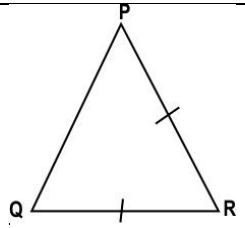
Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	8446	LINES AND ANGLES	What is the smaller angle between the hour and the minute hand of a clock at 12:20?		B

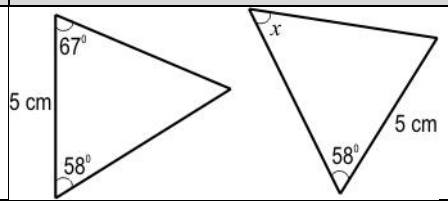
Answer Options			
Option A	Option B	Option C	Option D
105^0	110^0	115^0	120^0

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
2	**2_10 Mathematics**	TRIANGLES	Which of the following could represent the lengths of the sides of the triangle shown below?		**C**
	5891				

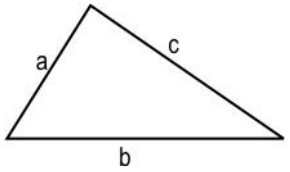
Answer Options			
Option A	Option B	Option C	Option D
6 units, 8 units, 12 units	4 units, 6 units, 5 units	15 units, 9 units, 12 units	10 units, 8 units, 4 units

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
3	**2_10 Mathematics**	TRIANGLES	The triangle here has side RP equal to side QR. The drawing shown is not to scale. Which angle of the triangle CAN have a degree measure of 95^0?		**C**
	5898				

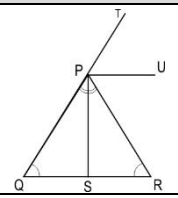
Answer Options			
Option A	Option B	Option C	Option D
$\angle P$	$\angle Q$	$\angle R$	None of them

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
4	2_10 Mathematics 5907	TRIANGLES	Shown here are two CONGRUENT scalene triangles. Some of the measurements are given. What is the measure of the angle marked x?		A

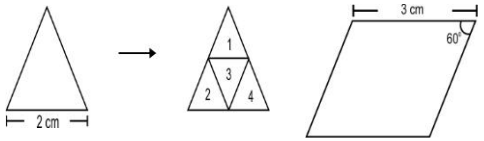
Answer Options			
Option A	Option B	Option C	Option D
55^0	58^0	67^0	65^0

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
5	2_10 Mathematics 5910	TRIANGLES	The semi perimeter of a triangle is half of the perimeter. For the triangle below the semi-perimeter is (a + b + c)/2. What is the ratio of the side of an equilateral triangle to its semi-perimeter?		C

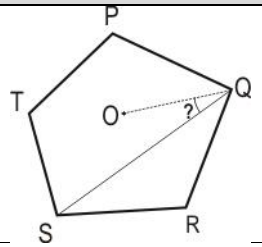
Answer Options			
Option A	Option B	Option C	Option D
01:02	01:03	02:03	01:06

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
6	2_10 Mathematics 5911	TRIANGLES	In an isosceles triangle PQR with PQ = PR, PS is the bisector of angle QPR. QP is extended to T and PU is drawn parallel to QR. From this, which of the following CANNOT be concluded?		D

Answer Options			
Option A	Option B	Option C	Option D
PS is perpendicular to QR.	PU is the bisector of angle TPR.	PS is a median of the triangle.	PR is the bisector of angle UPS.

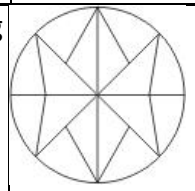
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
7	2_10 Mathematics 5916	TRIANGLES	4 equilateral triangles of side 1 cm are required to tile the triangle shown How many equilateral triangles of side 1cm will be required to cover the rhombus shown?		B

Answer Options			
Option A	Option B	Option C	Option D
9	18	24	36

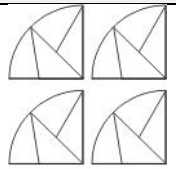
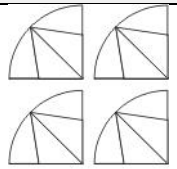
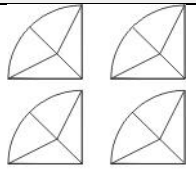
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
8	3_18 Mathematics 3416	TRIANGLES	PQRST is a regular pentagon and O is its centre. What is the measure of OQS?		A

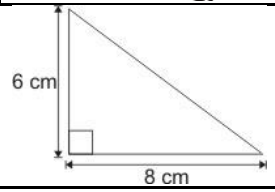
Answer Options

Option A	Option B	Option C	Option D
18^0	22.5^0	36^0	54^0

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
9	3_18 Mathematics 3418	TRIANGLES	The design given below is made by putting 4 tiles together. (The underside of the tiles are plain) Which set of tiles is the design made of?		D

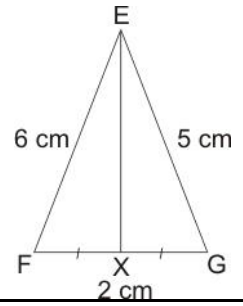
Answer Options

Option A	Option B	Option C	Option D
 **A.**	 **B.**	 **C.**	None of these

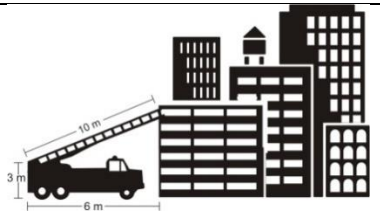
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
10	3_18 Mathematics 3393	TRIANGLES	What is the perimeter of the triangle shown below?		B

Answer Options

Option A	Option B	Option C	Option D
14 centimetres	24 centimetres	28 centimetres	We can't say

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
11	3_19 Mathematics 2784	TRIANGLES	A triangle EFG has sides 6 cm, 5 cm and 2 cm. The median EX is drawn as shown. (The figure shown is not to scale.) Which of the following could be the length of EX?		B

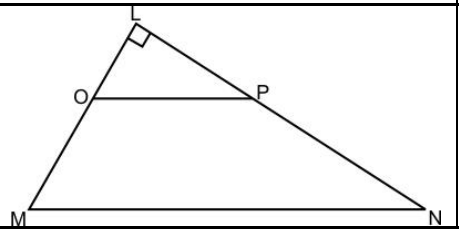
Answer Options			
Option A	Option B	Option C	Option D
6.1 cm	5.4 cm	5 cm	4.8 cm

12	3_19 Mathematics 2801	TRIANGLES	A fire engine, standing near a building, extends its ladder to a length of 10 metres to reach a certain window in the building. What is the height of the window from the ground?		D

Answer Options			
Option A	Option B	Option C	Option D
6 m	8 m	9 m	11 m

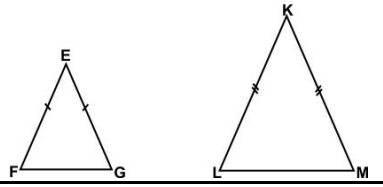
13	2_11 Mathematics 5312	TRIANGLES	(a, b, c) is known as a Pythagorean triplet if $a^2 + b^2 = c^2$. If (a, b, c) is a Pythagorean triplet, which of the following must also be a Pythagorean triplet?		D

Answer Options			
Option A	Option B	Option C	Option D
(a^2, b^2, c^2)	(3a, 4b, 5c)	(a + 2, b + 2, c + 2)	(7a, 7b, 7c)

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
14	2_11 Mathematics 5318	TRIANGLES	In the figure, OP is parallel to base MN of right angled triangle LMN. Also, LO = 3 cm, OM = 6 cm and MN = 15 cm. What is the perimeter (in cm) of trapezium OPNM?		C

Answer Options

Option A	Option B	Option C	Option D
30	32	34	42

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
15	2_11 Mathematics 5319	TRIANGLES	Shown below are two isosceles triangles with the equal sides marked: Which set of conditions given below is SUFFICIENT for the two triangles to be congruent?		C

Answer Options

Option A	Option B	Option C	Option D
$\angle E = \angle K$ and $\angle F = \angle L$	EF = KL and EG = KM	FG = LM and $\angle E = \angle K$	$\angle E = \angle K = 90^0$