

Types of Angles - Worksheet

Skill

Group A - Identify angle type given diagram

Write down the type of each angle below:

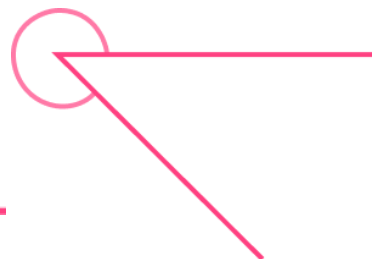
1)



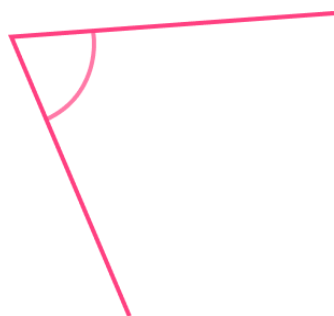
2)



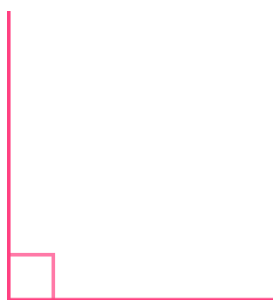
3)



4)



5)



6)



Group B - Identify angle type given size

Write down the type of each angle below:

1) 70°

2) 123°

3) 90°

4) 210°

5) 45°

6) 85.2°

7) 355°

8) 0.3°

9) 180°

Types of Angles - Worksheet

Group C - Estimate and identify the angle type

Estimate the size of the angle and write down the type of angle:

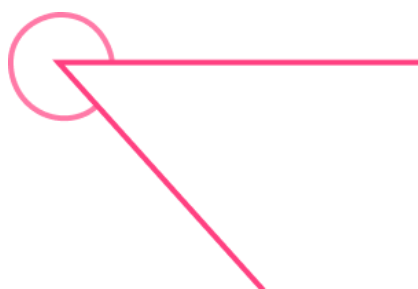
1)



2)



3)



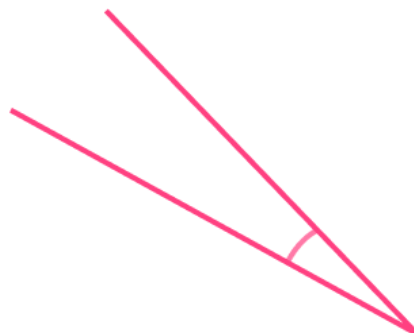
4)



5)



6)



Types of Angles - Worksheet

Applied

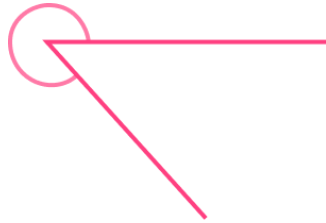
- 1) Draw 2 acute angles, 2 obtuse angles, and 2 reflex angles.
- 2) Below is a clock. What type of angle is created by the hour and minute hand? What is the size of the angle? Hint: A full rotation is 360° .



- 3) On her maths exam Sally was asked to measure an acute angle. She accidentally looked at the numbers on the inside of her protractor instead of the outside and gave the answer of 147° . What answer should she have put? Show your working.

Types of Angles - Exam Questions

- 1) (a) What is the special name for the angle below:

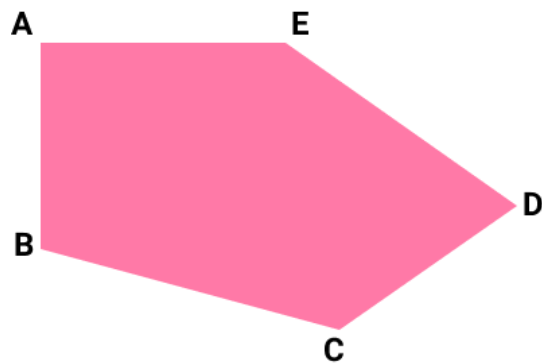


.....
(1)

- (b) Estimate the size of the angle above.

.....
(1)
(2 marks)

-
- 2) Below is an irregular pentagon.



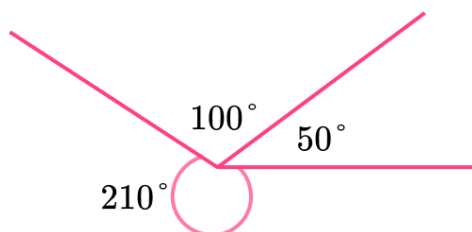
- (a) Mark the acute angle with an *A*. (1)

- (b) Mark the obtuse angle with an *O*. (1)

- (c) Mark the right angle with an *R*. (1)
(3 marks)

Types of Angles - Exam Questions

- 3) Three angles meet at a point.



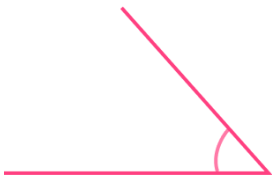

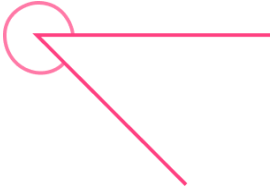
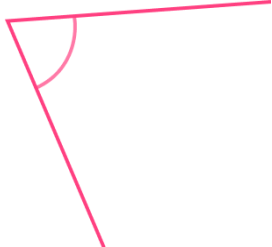
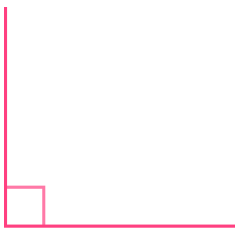

- (a) Write down the size of the obtuse angle.

.....
(1)



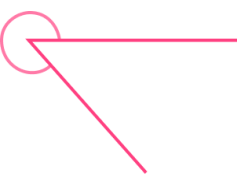



- (b) Write down the size of the reflex angle.

.....
(1)
(2 marks)


Types of Angles - Answers

	Question	Answer
	Skill Questions	
Group A	<p>Write down the type of each angle below:</p> <p>1) </p> <p>2) </p> <p>3) </p> <p>4) </p> <p>5) </p> <p>6) </p>	<p>1) Acute</p> <p>2) Obtuse</p> <p>3) Reflex</p> <p>4) Acute</p> <p>5) Right angle</p> <p>6) Obtuse / Straight line</p>

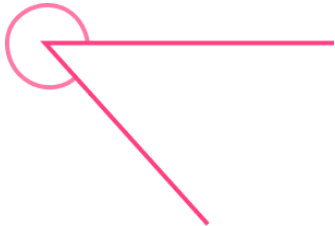
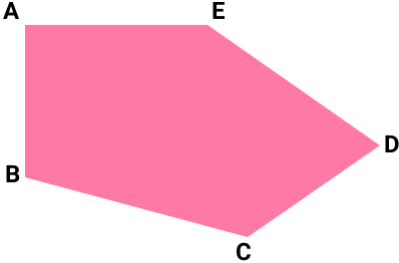
Types of Angles - Answers

Group B	<p>Write down the type of each angle below:</p> <ol style="list-style-type: none"> 1) 70° 2) 123° 3) 90° 4) 210° 5) 45° 6) 85.2° 7) 355° 8) 0.3° 9) 180° 	<ol style="list-style-type: none"> 1) Acute 2) Obtuse 3) Right angle 4) Reflex 5) Acute 6) Acute 7) Reflex 8) Acute 9) Obtuse / Straight line
Group C	<p>Estimate the size of the angle and write down the type of angle:</p> <ol style="list-style-type: none"> 1)  2)  3)  4)  5)  6)  	<ol style="list-style-type: none"> 1) Acute 50° 2) Obtuse 125° 3) Reflex 310° 4) Obtuse 120° 5) Reflex 238° 6) Acute 18°

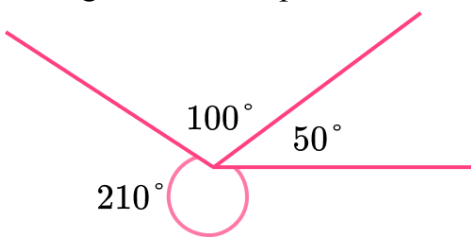
Types of Angles - Answers

	Question	Answer
	Applied Questions	
1)	Draw 2 acute angles, 2 obtuse angles, and 2 reflex angles.	<p>Answers may vary in the following ranges:</p> <p>Acute: $0 \leq x < 90$</p> <p>Obtuse: $90 \leq x \leq 180^\circ$</p> <p>Reflex: $180 < x \leq 360^\circ$</p>
2)	<p>Below is a clock. What type of angle is created by the hour and minute hand? What is the size of the angle? Hint: A full rotation is 360°.</p> 	<p>Acute angle</p> $360^\circ \div 12 = 30^\circ$ <p>Also allow:</p> <p>Reflex angle</p> $360 - (360 \div 12) = 330^\circ$
3)	On her maths exam Sally was asked to measure an acute angle. She accidentally looked at the numbers on the inside of her protractor instead of the outside and gave the answer of 147° . What answer should she have put? Show your working.	$180^\circ - 147^\circ = 33^\circ$

Types of Angles - Mark Scheme

	Question	Answer	
	Exam Questions		
1) (a)	What is the special name for the angle below: 	(a) Reflex angle	(1)
(b)	Estimate the size of the angle above.	(b) Any angle between 270° and 330°	(1)
2)	Below is an irregular pentagon.		
			
(a)	Mark the acute angle with an <i>A</i> .	(a) Marks $\angle EDC$ with an <i>A</i> .	(1)
(b)	Mark the obtuse angle with an <i>O</i> .	(b) Marks any of $\angle AED$, $\angle DCB$, or $\angle CBA$ with an <i>O</i> .	(1)
(c)	Mark the right angle with an <i>R</i> .	(c) Marks $\angle BAE$ with an <i>R</i> .	(1)

Types of Angles - Mark Scheme

3)	Three angles meet at a point. 		
(a)	Write down the size of the obtuse angle.	(a) 100°	(1)
(b)	Write down the size of the reflex angle.	(b) 210°	(1)

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