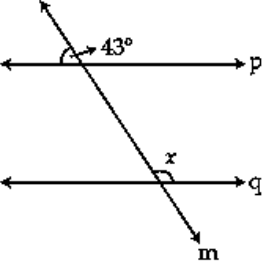
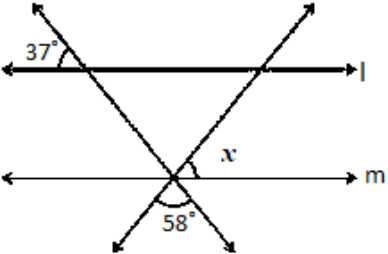


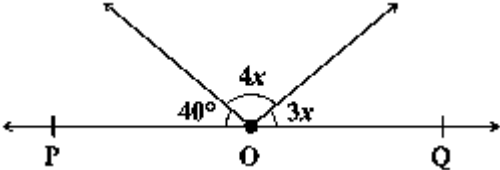
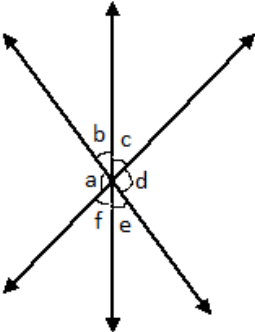
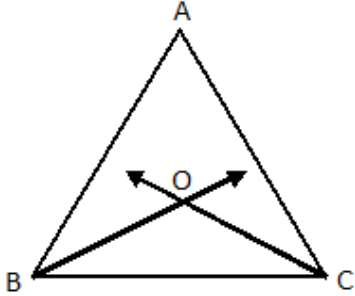
# INDIAN SCHOOL AL WADI AL KABIR

Class IX, Mathematics *Worksheet- Lines and Angles*

## MULTIPLE CHOICE QUESTIONS

<b>Q.1.</b>	If two interior angles on the same side of a transversal intersecting two parallel lines are in the ratio 2 : 3, then the greater of the two angles is:						
<b>A</b>	$54^{\circ}$	<b>B</b>	$108^{\circ}$	<b>C</b>	$120^{\circ}$	<b>D</b>	$136^{\circ}$
<b>Q.2.</b>	In the given figure XYZ is a straight line. If $\angle XYP + \angle ZYQ = 85^{\circ}$ , find $\angle PYQ$ .						
<b>A</b>	$75^{\circ}$	<b>B</b>	$85^{\circ}$	<b>C</b>	$95^{\circ}$	<b>D</b>	$105^{\circ}$
<b>Q.3.</b>	An exterior angle of a triangle is $80^{\circ}$ and two interior opposite angles are equal. The measure of each interior angle is:						
<b>A</b>	$45^{\circ}$	<b>B</b>	$40^{\circ}$	<b>C</b>	$60^{\circ}$	<b>D</b>	$100^{\circ}$
<b>Q.4.</b>	In a right-angled triangle, if one acute angle is half the other, then the smallest angle is:						
<b>A</b>	$15^{\circ}$	<b>B</b>	$25^{\circ}$	<b>C</b>	$35^{\circ}$	<b>D</b>	$30^{\circ}$
<b>Q.5.</b>	The angle which is half its supplement is:						
<b>A</b>	$60^{\circ}$	<b>B</b>	$120^{\circ}$	<b>C</b>	$110^{\circ}$	<b>D</b>	$130^{\circ}$
<b>Q.6.</b>	Angles of a triangle are in the ratio 2 : 4 : 3. The smallest angle of the triangle is:						
<b>A</b>	$60^{\circ}$	<b>B</b>	$40^{\circ}$	<b>C</b>	$80^{\circ}$	<b>D</b>	$20^{\circ}$
<b>Q.7.</b>	An exterior angle of a triangle is $105^{\circ}$ and its two interior opposite angles are equal. Each of these equal angles is:						
<b>A</b>	$37\frac{1}{2}$	<b>B</b>	$52\frac{1}{2}$	<b>C</b>	$72\frac{1}{2}$	<b>D</b>	$37^{\circ}$

<b>Q.8.</b>	If one angle of a triangle is equal to the sum of the other two angles, then the triangle is:							
	<b>A</b>	Obtuse triangle	<b>B</b>	Equilateral triangle		Isosceles triangle	<b>D</b>	Right triangle
<b>Q.9.</b>	If $p \parallel q$ then $x$ is :							
								
	<b>A</b>	$137^{\circ}$	<b>B</b>	$117^{\circ}$	<b>C</b>	$48^{\circ}$	<b>D</b>	$47^{\circ}$
<b>Q.10.</b>	If $A+B=145^{\circ}$ and $B+C=100^{\circ}$ , then angles A, B, C are:							
	<b>A</b>	$80^{\circ}, 65^{\circ}, 35^{\circ}$	<b>B</b>	$80^{\circ}, 35^{\circ}, 65^{\circ}$	<b>C</b>	$65^{\circ}, 80^{\circ}, 35^{\circ}$	<b>D</b>	$35^{\circ}, 65^{\circ}, 80^{\circ}$
<b>Q.11.</b>	If the angles of a triangle are in the ratio 5:3:7, then the triangle is:							
	<b>A</b>	Acute triangle	<b>B</b>	Right triangle	<b>C</b>	Obtuse triangle	<b>D</b>	Isosceles triangle
<b>Q.12.</b>	In figure, if $l \parallel m$ , what is the value of $x$ .							
								
	<b>A</b>	$75^{\circ}$	<b>B</b>	$85^{\circ}$	<b>C</b>	$90^{\circ}$	<b>D</b>	$70^{\circ}$
<b>Q.13.</b>	An angle is $20^{\circ}$ more than three times the given angle. If the two angles are supplementary the angles are:							
	<b>A</b>	$20^{\circ}, 160^{\circ}$	<b>B</b>	$40^{\circ}, 140^{\circ}$	<b>C</b>	$60^{\circ}, 120^{\circ}$	<b>D</b>	$70^{\circ}, 110^{\circ}$

<p><b>Q.14.</b></p>	<p>In Fig., POQ is a line. The value of x is:</p> <div style="text-align: center;">  </div>							
<p><b>A</b></p>	<p><math>20^\circ</math></p>	<p><b>B</b></p>	<p><math>25^\circ</math></p>	<p><b>C</b></p>	<p><math>35^\circ</math></p>	<p><b>D</b></p>	<p><math>30^\circ</math></p>	
<p><b>Q.15.</b></p>	<p>In the figure which of the following statements is true?</p> <p>(i) <math>a + b = d + c</math>    (ii) <math>a + c + e = 180^\circ</math>    (iii) <math>b + f = c + e</math></p> <div style="text-align: center;">  </div>							
<p><b>A</b></p>	<p>(i) only</p>		<p><b>B</b></p>	<p>(ii) only</p>		<p><b>C</b></p>	<p>(iii) only</p>	
<p><b>Q.16.</b></p>	<p>In the given figure, the bisectors of <math>\angle ABC</math> and <math>\angle BCA</math>, intersect each other at point O. If <math>\angle BOC = 100^\circ</math>, then <math>\angle A</math> is:</p> <div style="text-align: center;">  </div>							
<p><b>A</b></p>	<p><math>30^\circ</math></p>	<p><b>B</b></p>	<p><math>40^\circ</math></p>	<p><b>C</b></p>	<p><math>50^\circ</math></p>	<p><b>D</b></p>	<p><math>20^\circ</math></p>	
<p><b>Q.17.</b></p>	<p>Angles of a triangle are in the ratio 3 : 4 : 5, the largest angle of the triangle is:</p>							
<p><b>A</b></p>	<p><math>75^\circ</math></p>	<p><b>B</b></p>	<p><math>60^\circ</math></p>	<p><b>C</b></p>	<p><math>45^\circ</math></p>	<p><b>D</b></p>	<p><math>90^\circ</math></p>	

**Q.18.** In the given figure,  $AC \perp BD$ . Find  $y$  if  $\angle BAC = 40^\circ$  and  $\angle BED = 100^\circ$ .

<b>A</b>	30°	<b>B</b>	60°	<b>C</b>	80°	<b>D</b>	45°
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**Q.19.** In the given figure if  $l \parallel m$ , then the value of  $x$  is:

<b>A</b>	35°	<b>B</b>	40	<b>C</b>	85°	<b>D</b>	95°
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**Q.20.** In the given figure  $AB \parallel CD$ . The value of  $x$  is:

<b>A</b>	30°	<b>B</b>	60°	<b>C</b>	80°	<b>D</b>	45°
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<b>Answers</b>								
<b>Answers</b>	<b>1</b>	<b>B</b>	<b>2</b>	<b>C</b>	<b>3.</b>	<b>B</b>	<b>4</b>	<b>D</b>
	<b>5</b>	<b>A</b>	<b>6</b>	<b>B</b>	<b>7</b>	<b>B</b>	<b>8</b>	<b>D</b>
	<b>9</b>	<b>A</b>	<b>10</b>	<b>A</b>	<b>11</b>	<b>A</b>	<b>12</b>	<b>B</b>
	<b>13</b>	<b>B</b>	<b>14</b>	<b>A</b>	<b>15</b>	<b>D</b>	<b>16</b>	<b>D</b>
	<b>17</b>	<b>A</b>	<b>18</b>	<b>A</b>	<b>19</b>	<b>D</b>	<b>20</b>	<b>B</b>

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