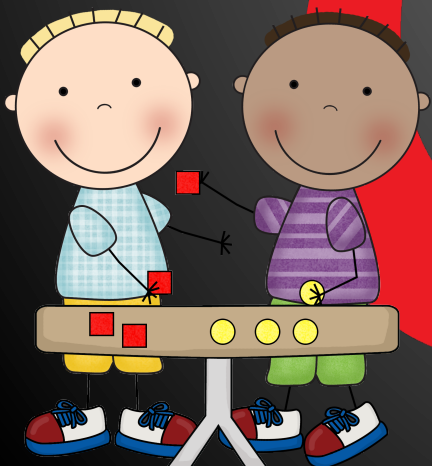


# Angle Properties

*Task Cards*



# **About These Task cards**

**I designed these Angle properties Task cards to help encourage my students to engage in mathematical conversations with a variety of their classmates.**

**My students absolutely loved getting up and moving around the room to answer Task cards and I hope yours will too! Please note that the drawings are not to scale and students cannot use a protractor to find the answers.**

## **HOW TO USE These Task cards**

- 1. Print, cut and Laminate the cards to make them more durable.**
- 2. Place the cards around the room. My students love it when I mix the order of the cards up, making it more of a scavenger hunt to find them all.**
- 3. Give each student a copy of the answer sheet to record his or her answers.**
- 4. Instruct students to go around the room answering each card. Students will need to match the number on the bottom right of each card to the correct box on their answer sheet.**

## **Card Index**

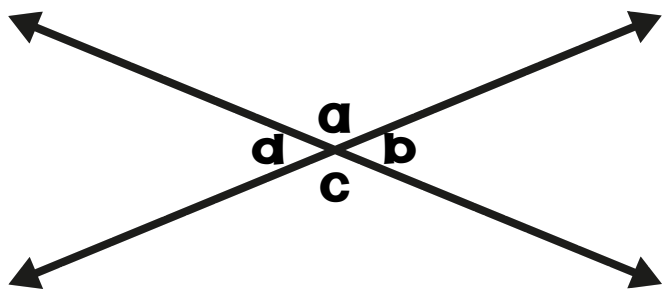
**cards 1-12 - Identify the angle based on the given property.**

**cards 13-24 - Find the measurement of the given angle.**

**cards 25-32 - Explain how to find the missing measurements**

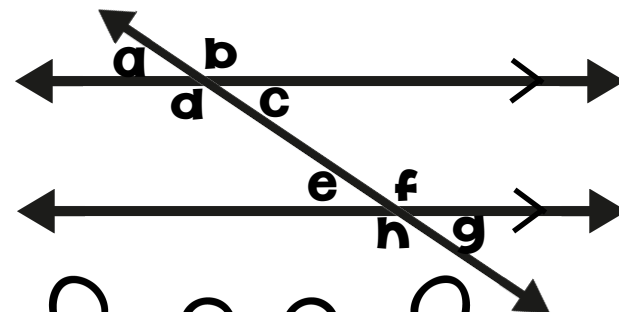
**cards 33-40 - Find all the missing angles.**

**What angle is the opposite of  $\angle a$ ?**



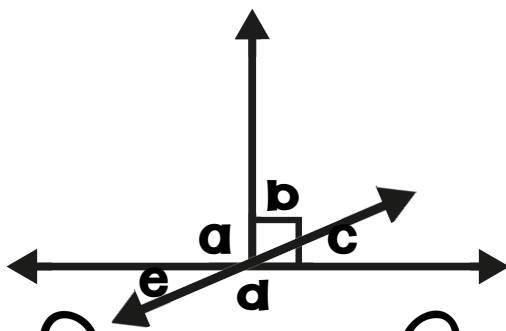
1

**What angle is the alternate angle of  $\angle c$ ?**



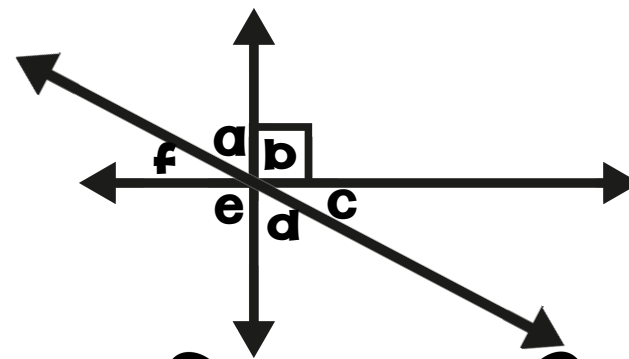
2

**What angle is complementary to  $\angle b$ ?**



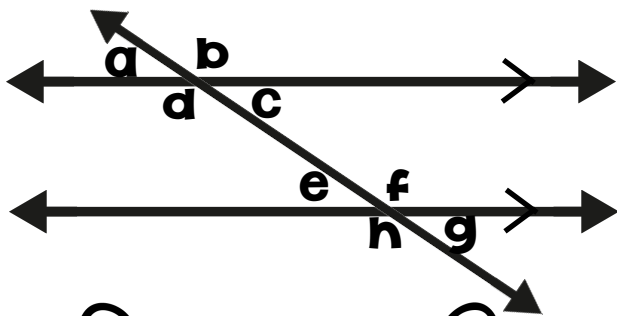
3

**What angle is opposite to  $\angle f$ ?**



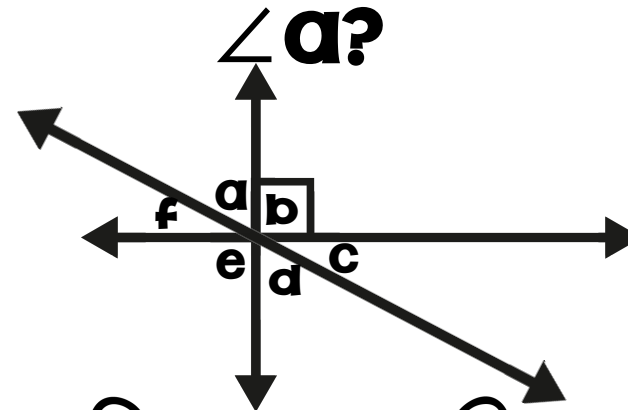
4

**What is the corresponding angle of  $\angle d$ ?**



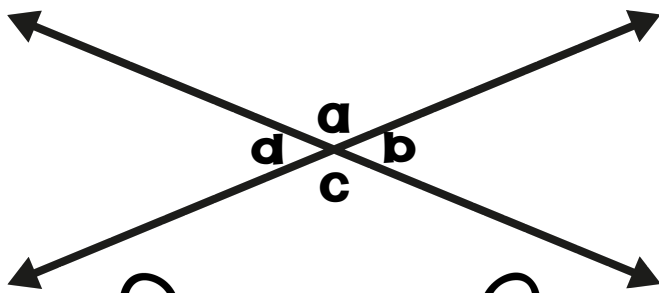
5

**What angle is complementary to  $\angle a$ ?**



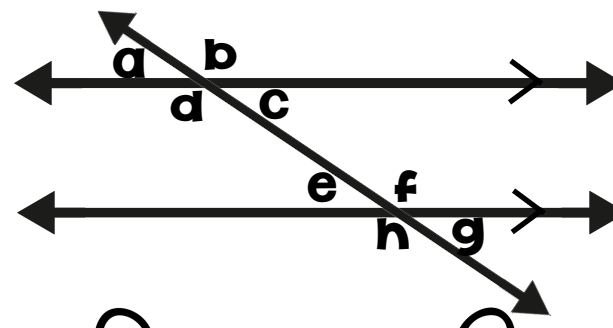
6

**What angle is supplementary to  $\angle c$ ?**



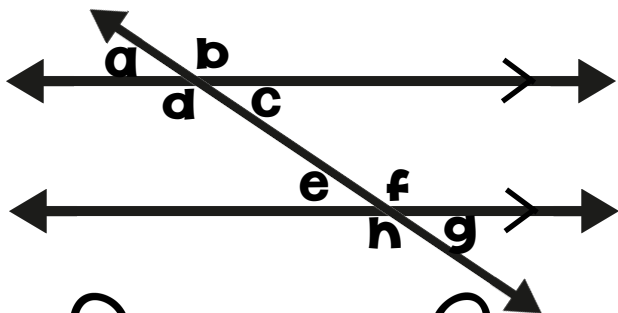
7

**$\angle d$  and what other angle are interior angles?**



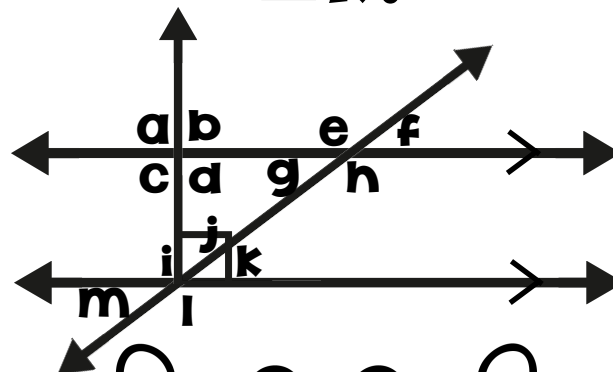
8

**What is the corresponding angle of  $\angle g$ ?**



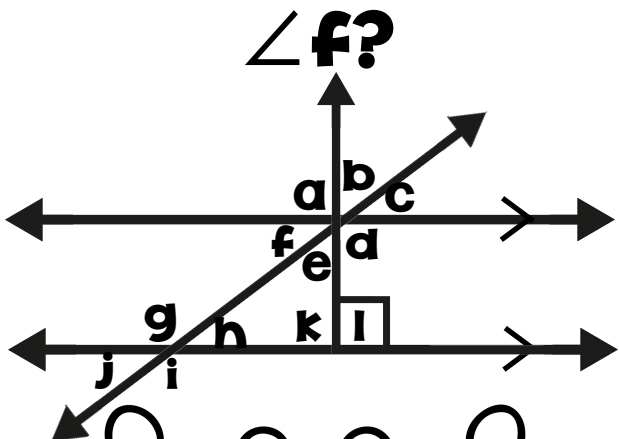
9

**What angle is complementary to  $\angle k$ ?**



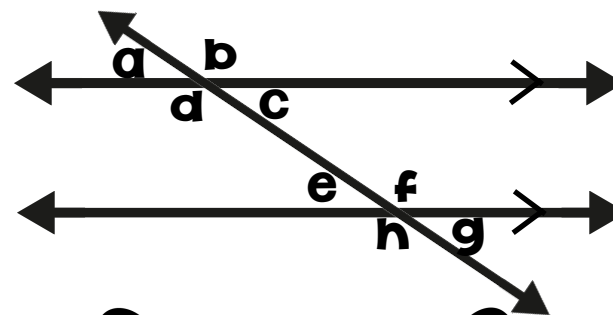
10

**What angle is the alternate angle of  $\angle f$ ?**



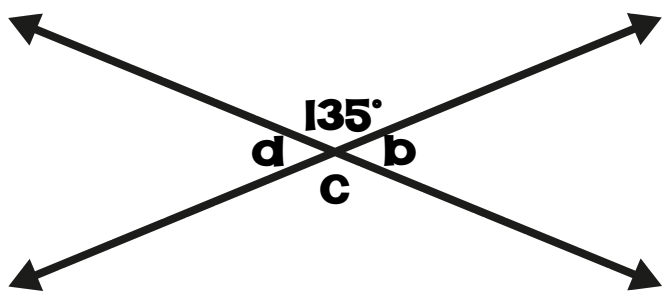
11

**Name a pair of interior angles.**



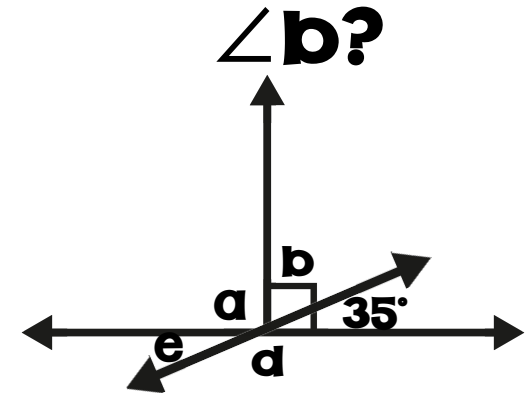
12

**What is the measurement of  $\angle C$ ?**



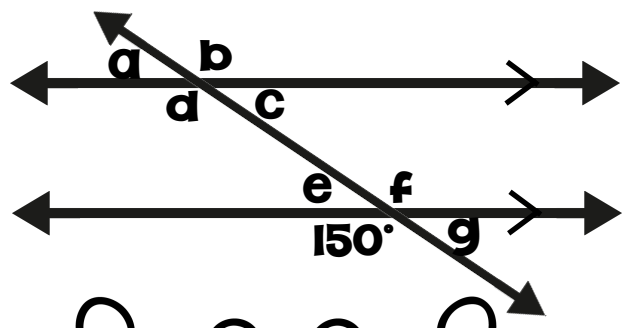
13

**What is the measurement of  $\angle b$ ?**



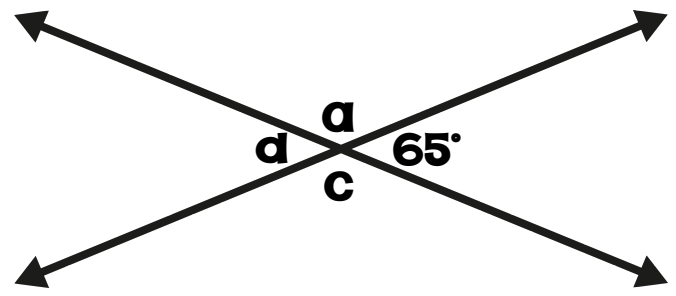
14

**What is the measurement of  $\angle f$ ?**



15

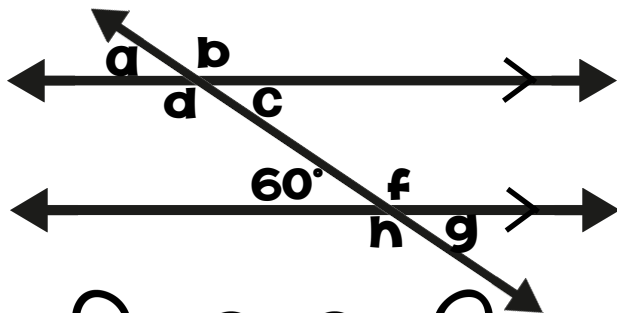
**What is the measurement of  $\angle C$ ?**



16

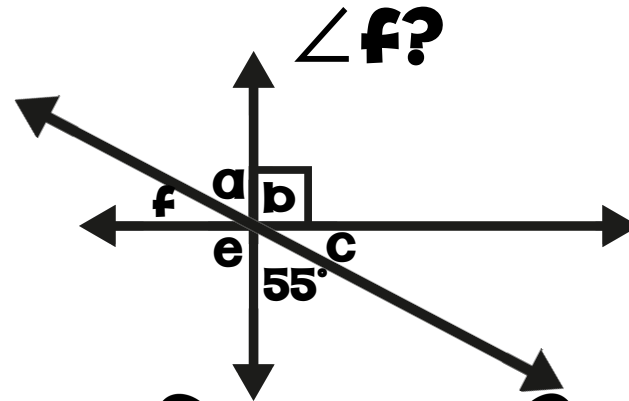


**What is the measurement of  $\angle d$ ?**



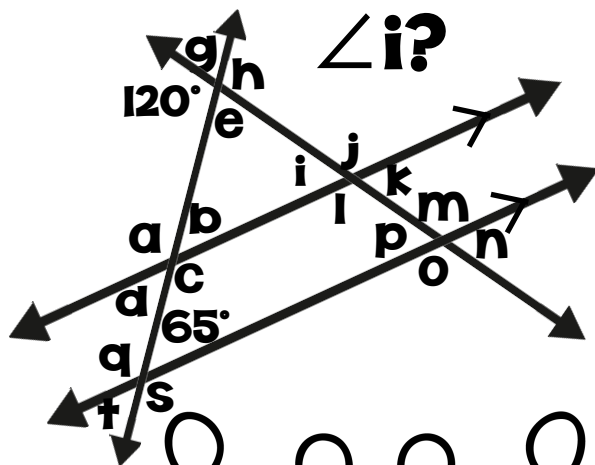
17

**What is the measurement of  $\angle f$ ?**



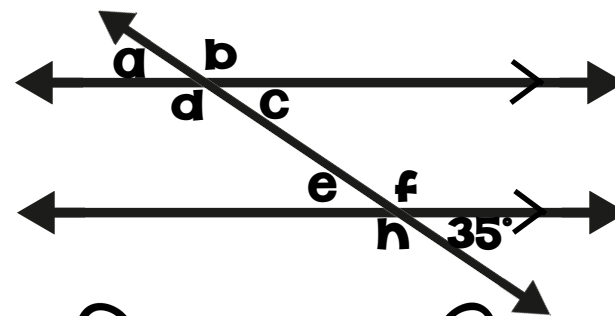
18

**What is the measurement of  $\angle i$ ?**



19

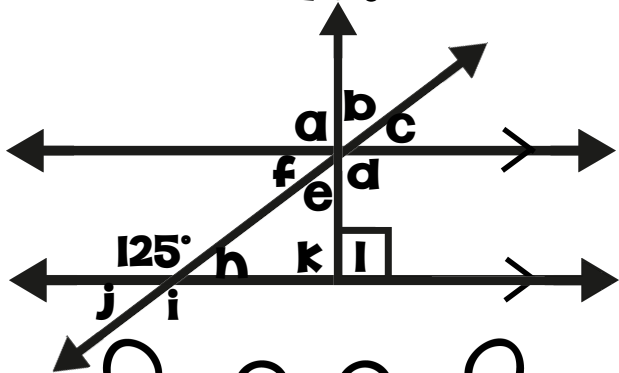
**What is the measurement of  $\angle e$ ?**



20

What is the measurement of

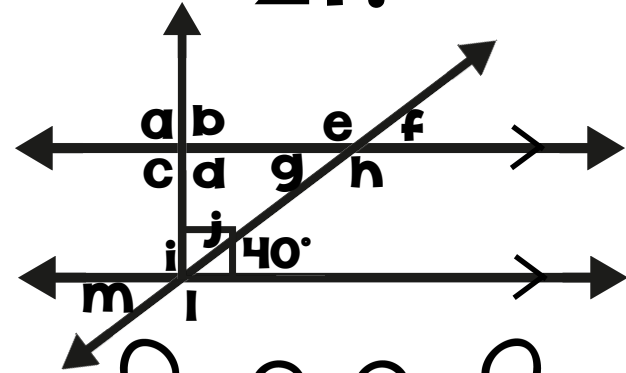
$\angle h$ ?



21

What is the measurement of

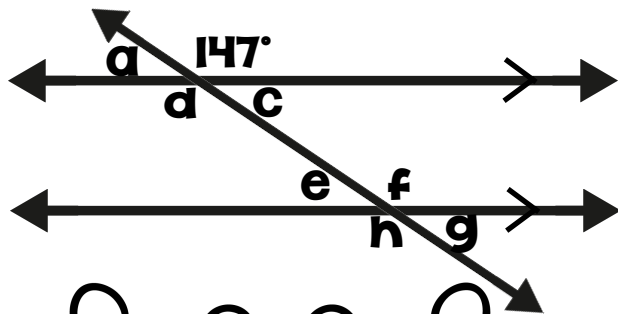
$\angle f$ ?



22

What is the measurement of

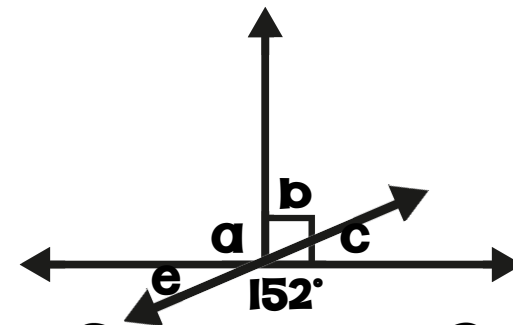
$\angle c$ ?



23

What is the measurement of

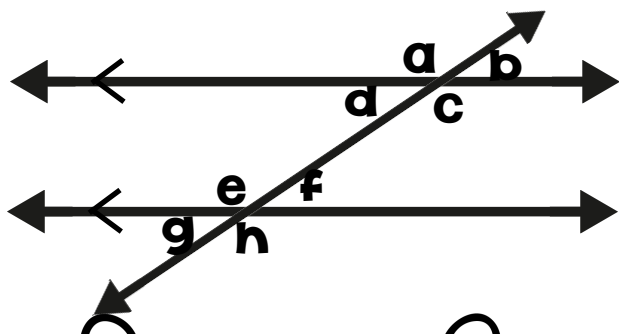
$\angle c$ ?



24

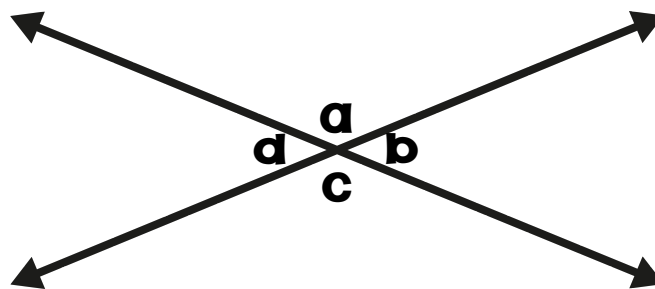


Why is  $\angle c$  equal to  $\angle h$ ?



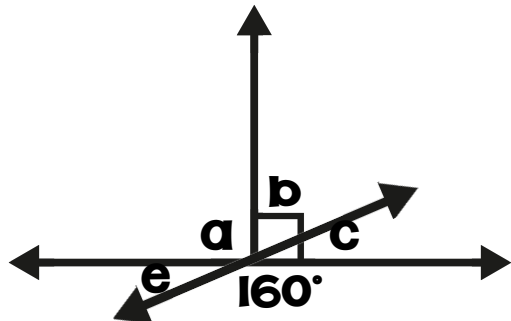
25

Why is  $\angle d$  equal to  $\angle b$ ?



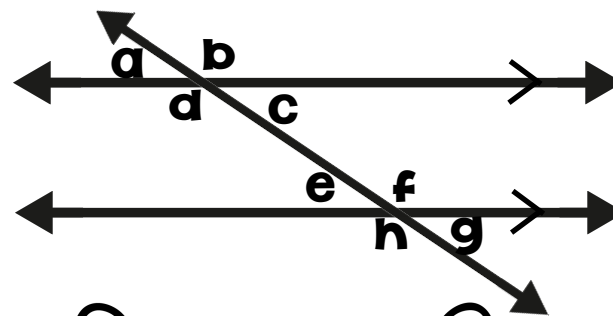
26

How do you find the measurement of  $\angle e$ ?



27

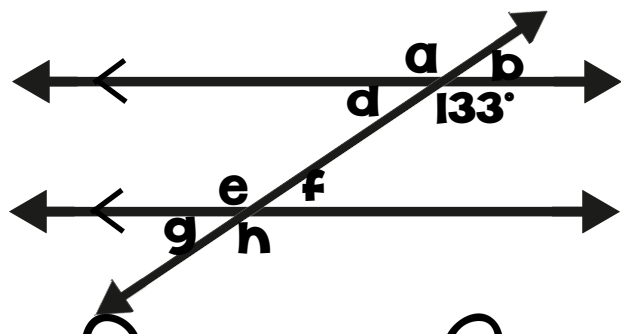
Why is  $\angle e$  equal to  $\angle c$ ?



28

**How do you find the measurement of**

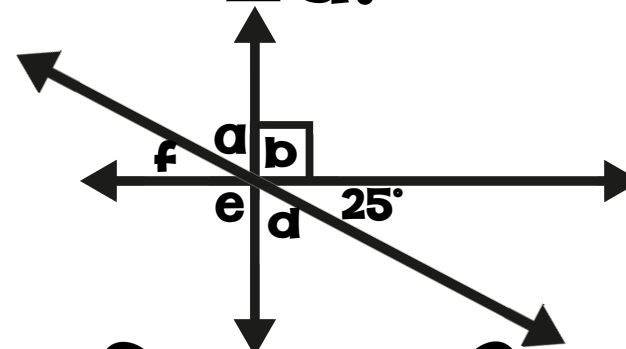
**$\angle f$ ?**



29

**How do you find the measurement of**

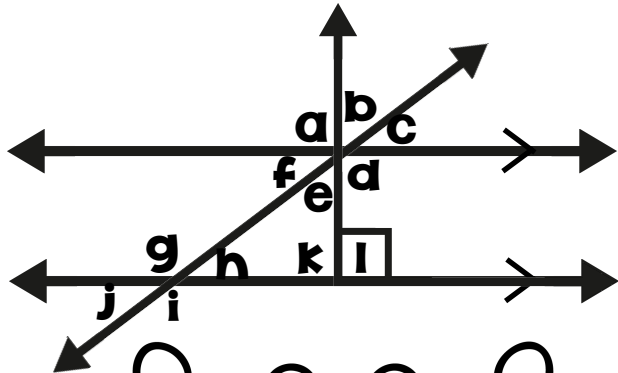
**$\angle d$ ?**



30

**How do you find the measurement of**

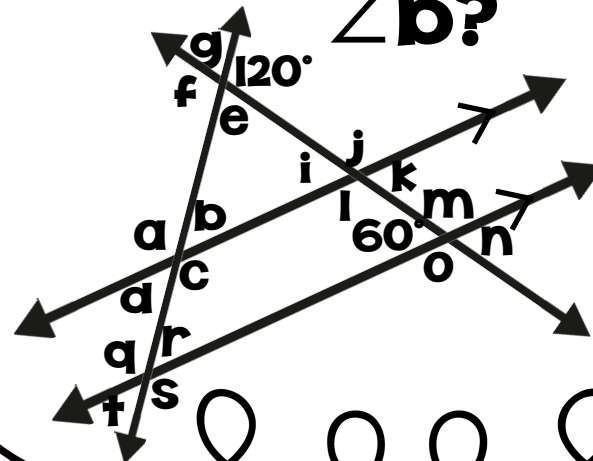
**$\angle a$ ?**



31

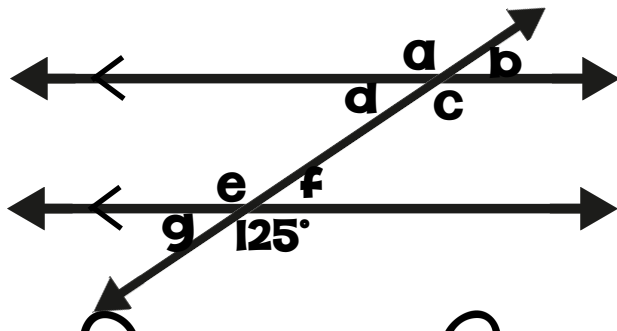
**How do you find the measurement of**

**$\angle b$ ?**



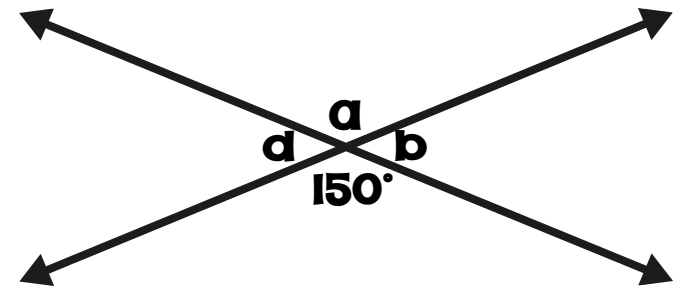
32

**Find the measures of the missing angles.**



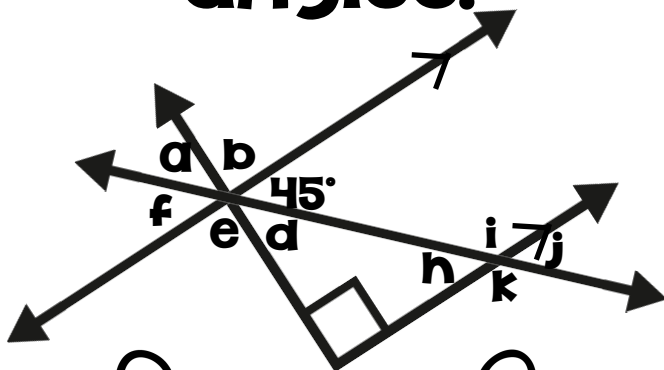
33

**Find the measures of the missing angles.**



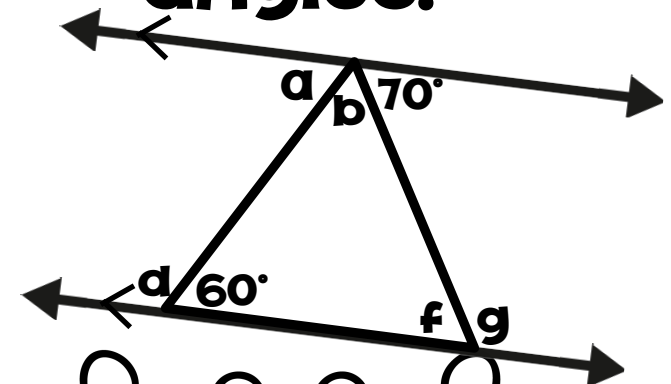
34

**Find the measures of the missing angles.**



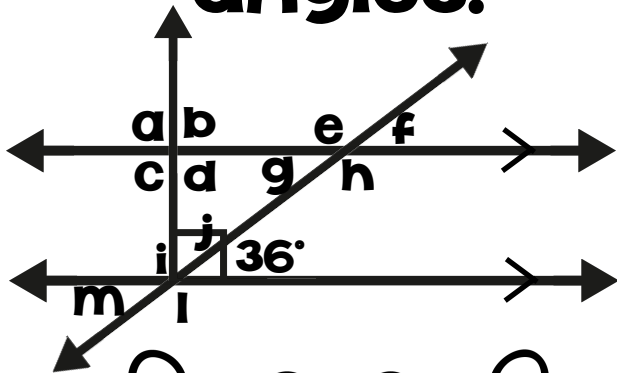
35

**Find the measures of the missing angles.**



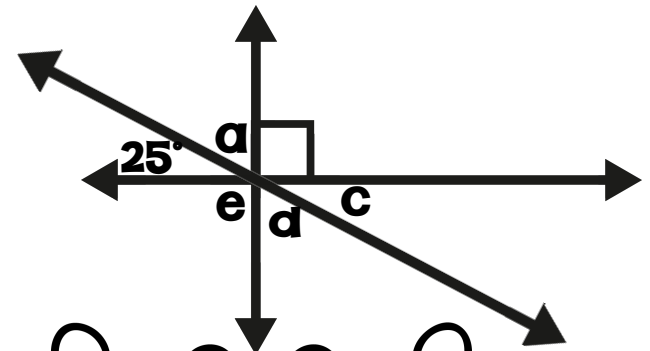
36

**Find the measures of the missing angles.**



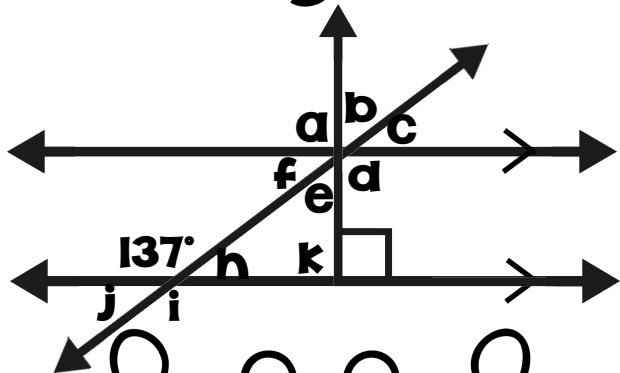
37

**Find the measures of the missing angles.**



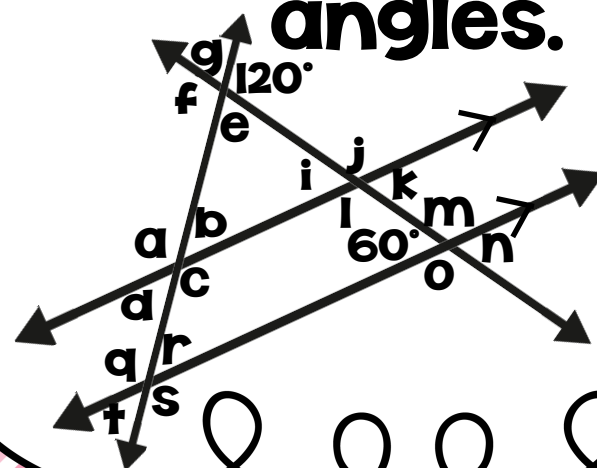
38

**Find the measures of the missing angles.**



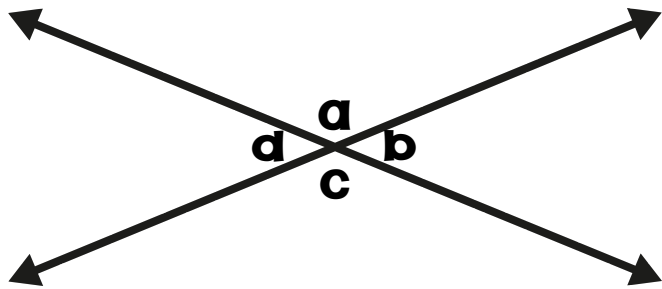
39

**Find the measures of the missing angles.**



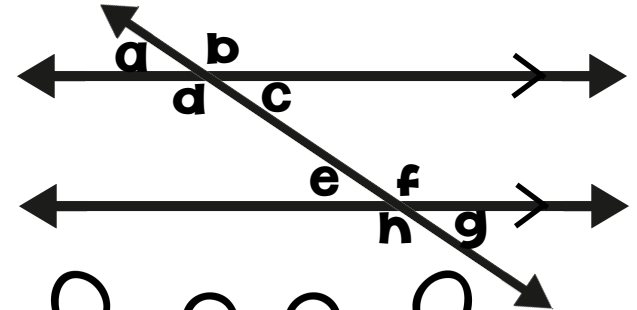
40

**What angle is the opposite of  $\angle a$ ?**



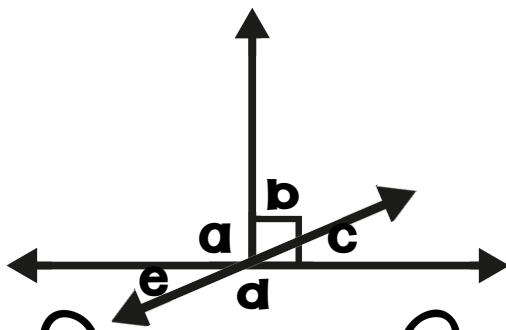
**1**

**What angle is the alternate angle of  $\angle c$ ?**



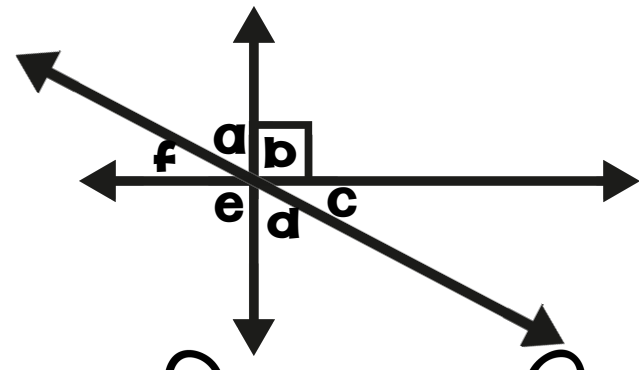
**2**

**What angle is complementary to  $\angle b$ ?**



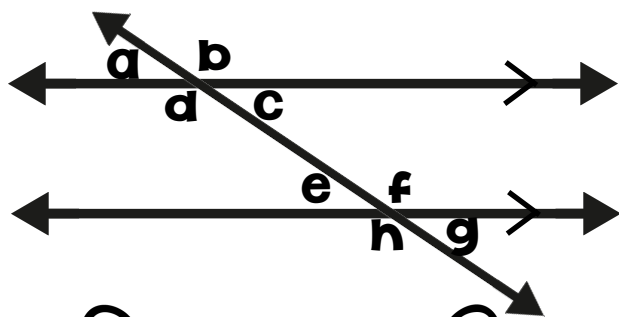
**3**

**What angle is opposite to  $\angle f$ ?**



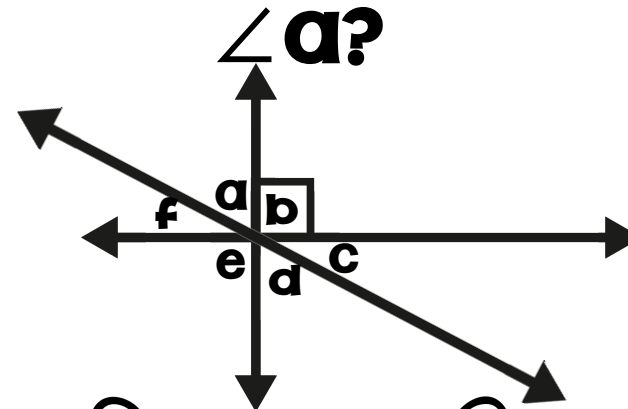
**4**

**What is the corresponding angle of  $\angle d$ ?**



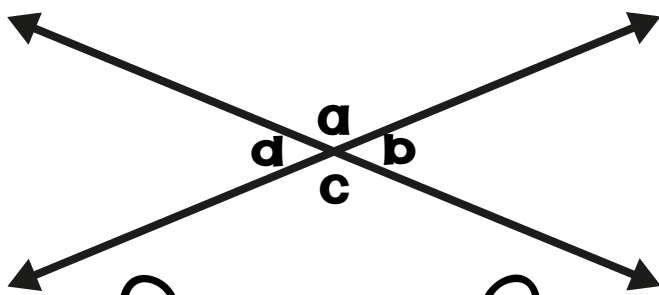
5

**What angle is complementary to  $\angle a$ ?**



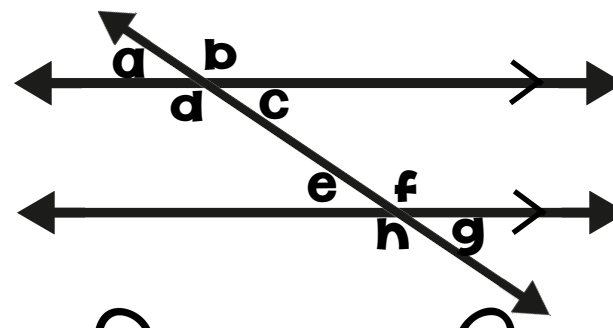
6

**What angle is supplementary to  $\angle c$ ?**



7

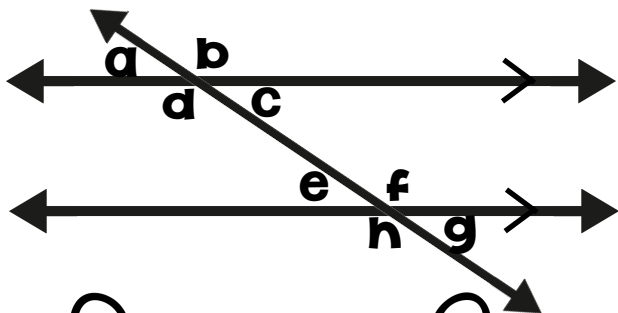
**$\angle d$  and what other angle are interior angles?**



8

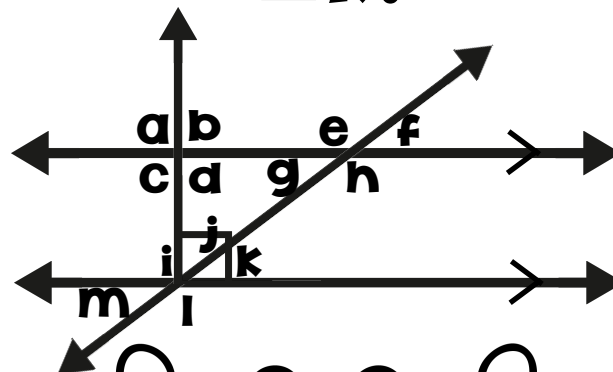


**What is the corresponding angle of  $\angle g$ ?**



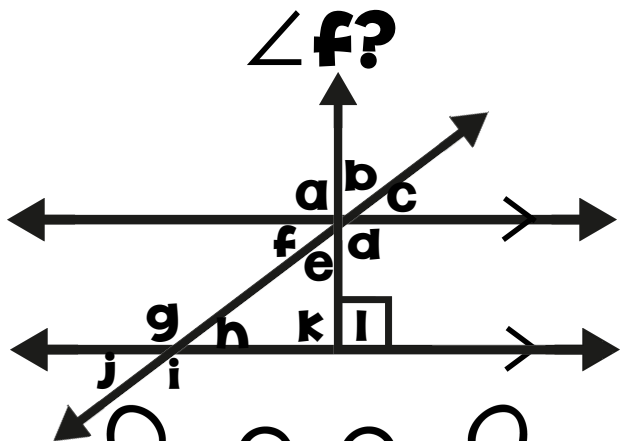
9

**What angle is complementary to  $\angle k$ ?**



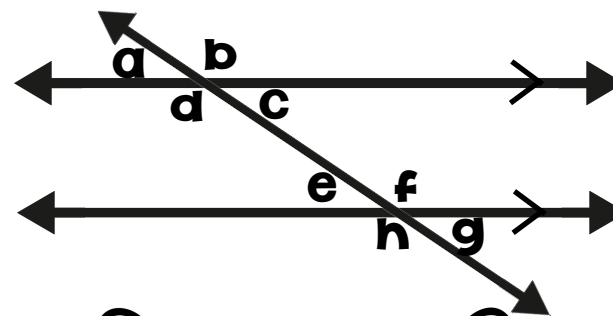
10

**What angle is the alternate angle of  $\angle f$ ?**



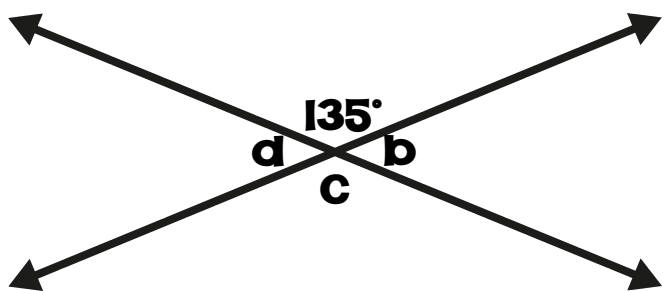
11

**Name a pair of interior angles.**



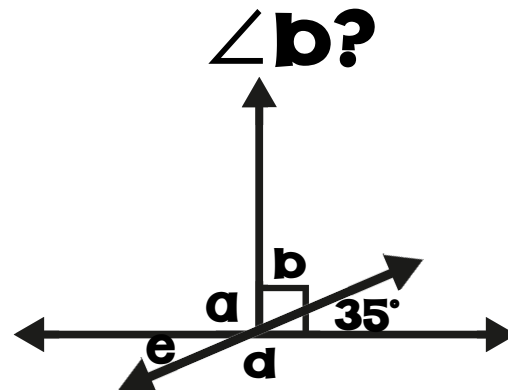
12

**What is the measurement of  $\angle C$ ?**



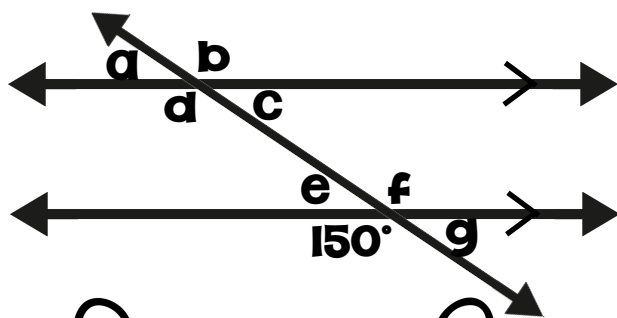
13

**What is the measurement of  $\angle b$ ?**



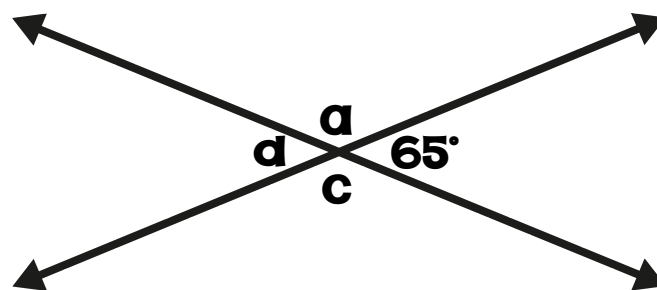
14

**What is the measurement of  $\angle f$ ?**



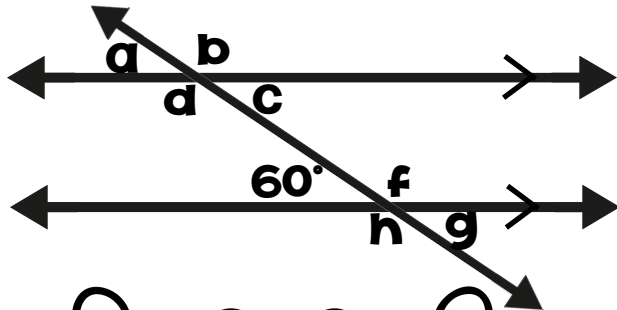
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**What is the measurement of  $\angle C$ ?**



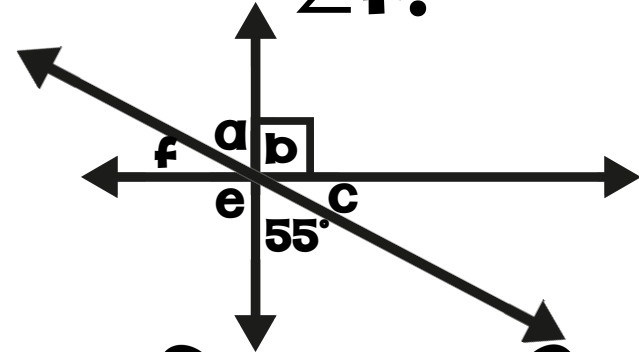
16

**What is the measurement of  $\angle d$ ?**



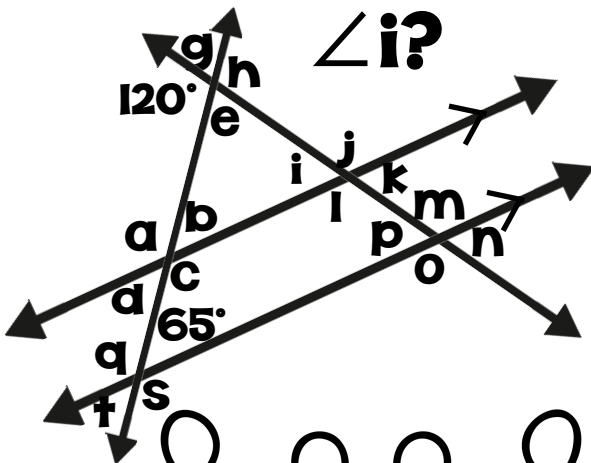
17

**What is the measurement of  $\angle f$ ?**



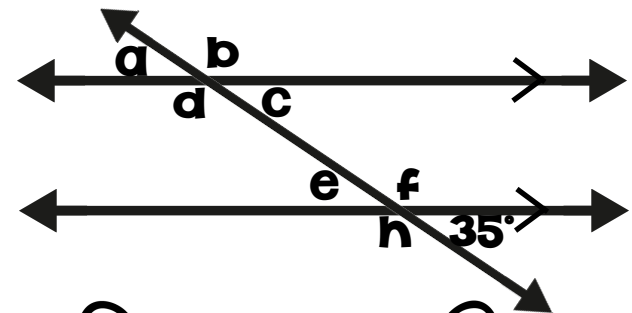
18

**What is the measurement of  $\angle i$ ?**



19

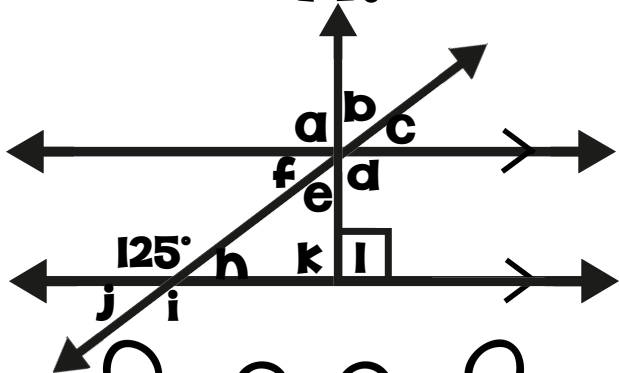
**What is the measurement of  $\angle e$ ?**



20

**What is the measurement of**

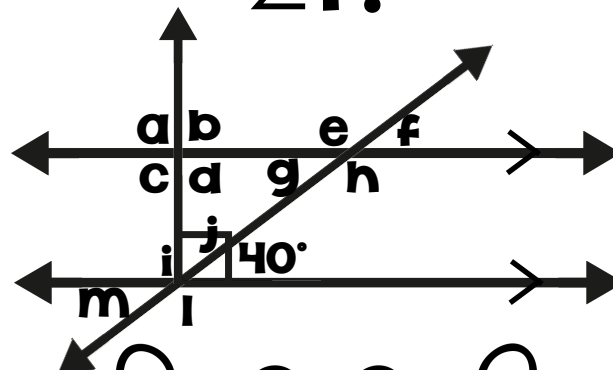
**$\angle h$ ?**



21

**What is the measurement of**

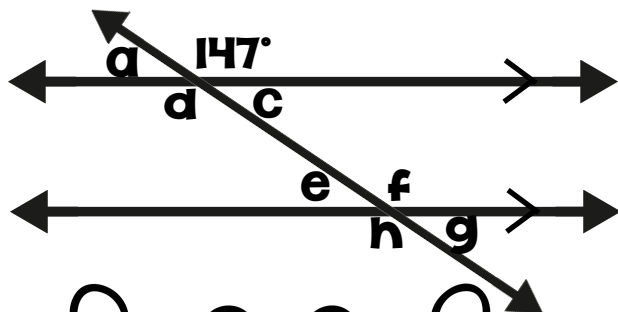
**$\angle f$ ?**



22

**What is the measurement of**

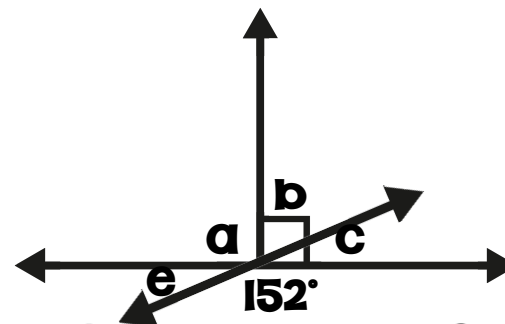
**$\angle c$ ?**



23

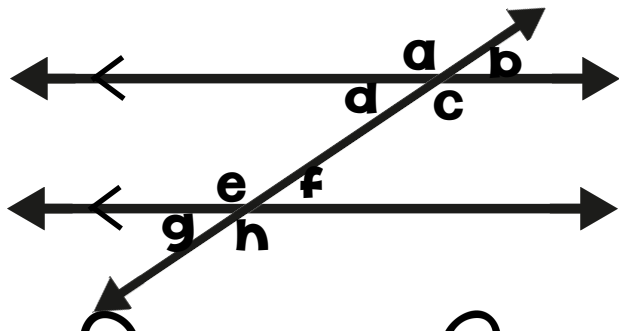
**What is the measurement of**

**$\angle c$ ?**



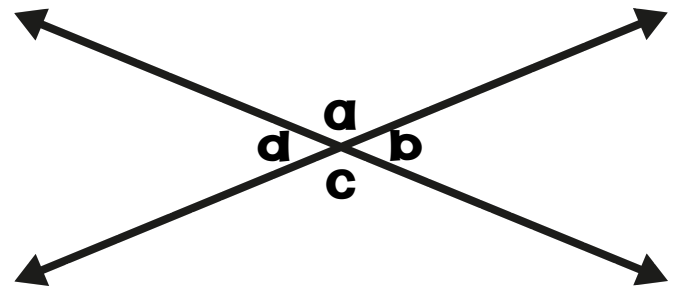
24

Why is  $\angle c$  equal to  $\angle h$ ?



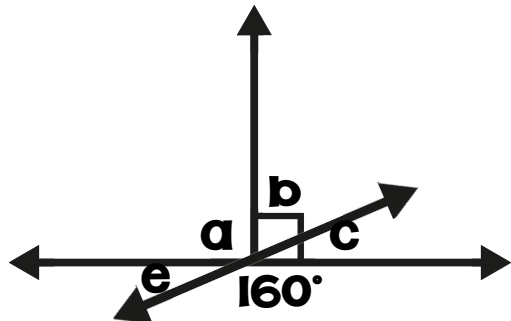
25

Why is  $\angle d$  equal to  $\angle b$ ?



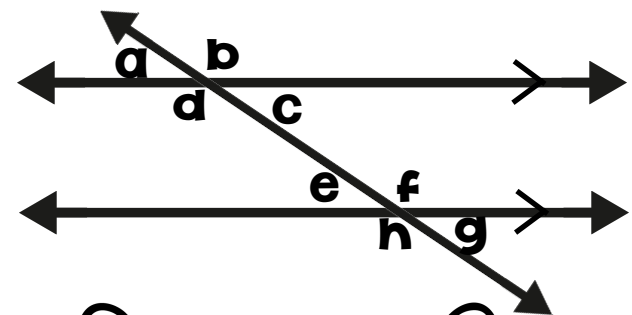
26

How do you find the measurement of  $\angle e$ ?



27

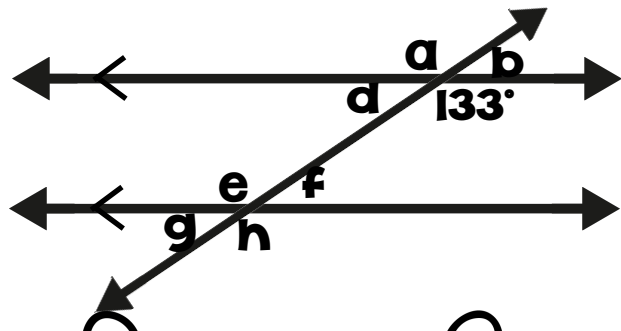
Why is  $\angle e$  equal to  $\angle c$ ?



28

**How do you find the measurement of**

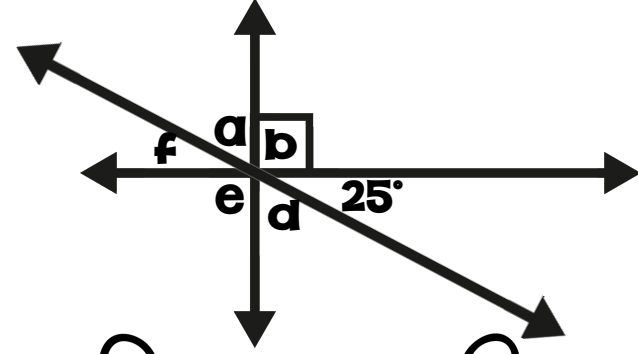
**$\angle f$ ?**



29

**How do you find the measurement of**

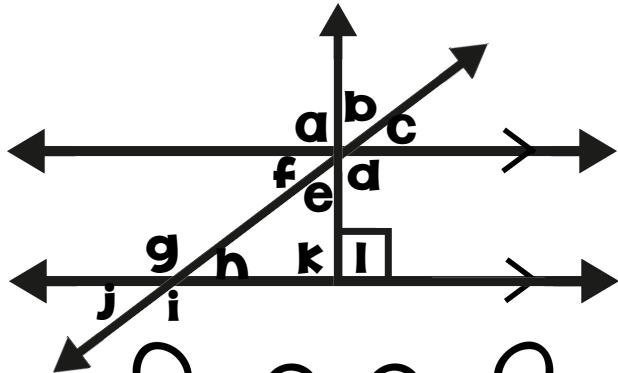
**$\angle d$ ?**



30

**How do you find the measurement of**

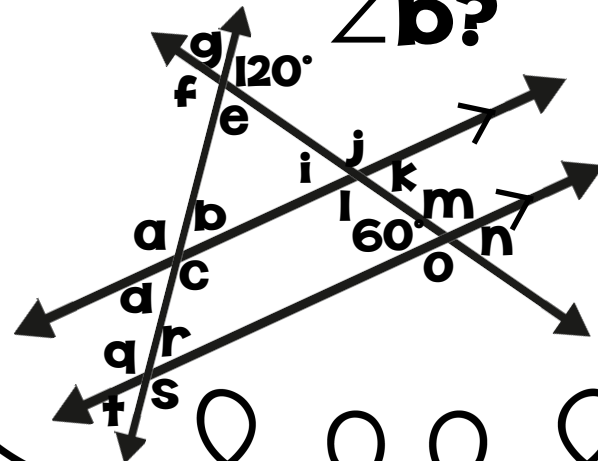
**$\angle a$ ?**



31

**How do you find the measurement of**

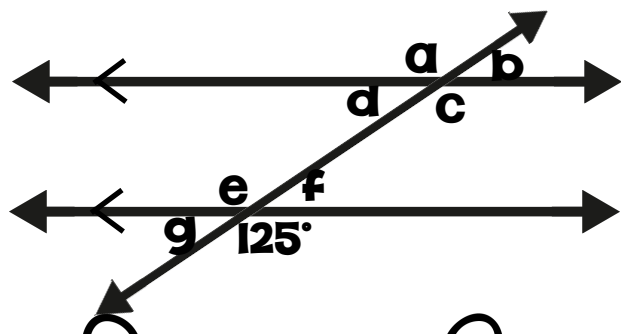
**$\angle b$ ?**



32

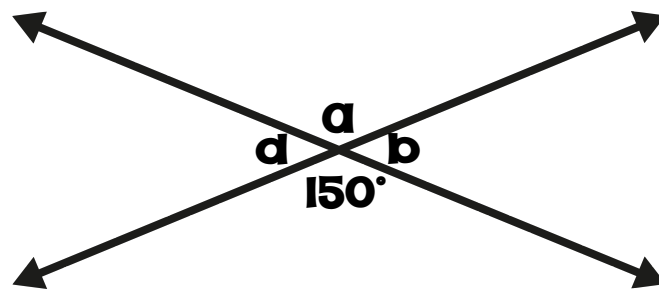


**Find the measures of the missing angles.**



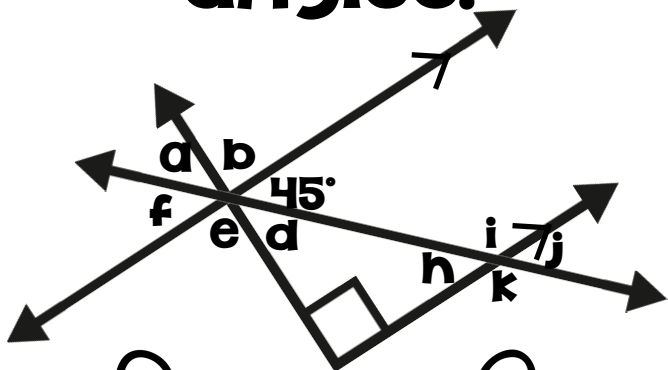
33

**Find the measures of the missing angles.**



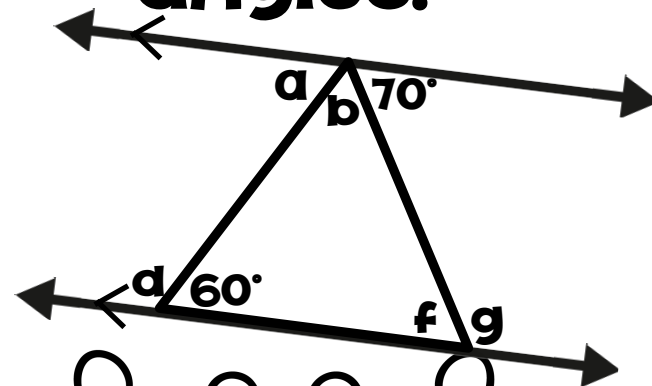
34

**Find the measures of the missing angles.**



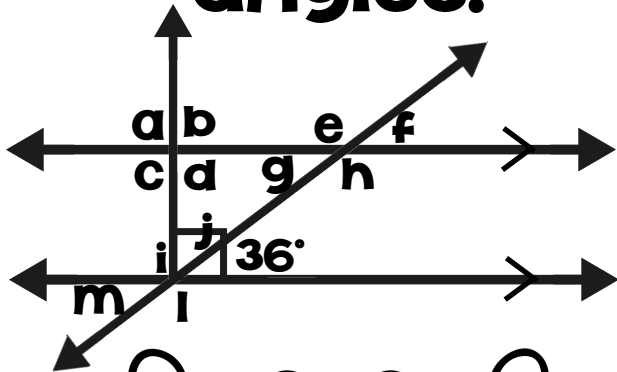
35

**Find the measures of the missing angles.**



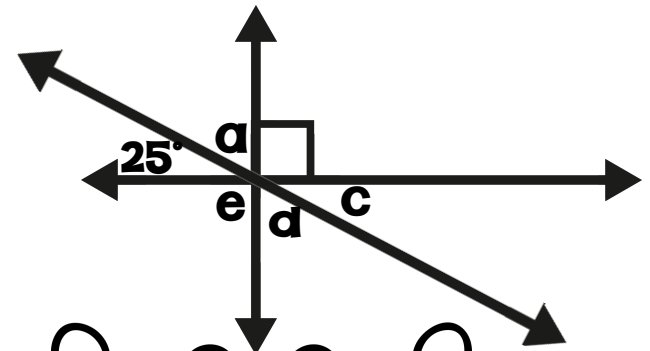
36

**Find the measures of the missing angles.**



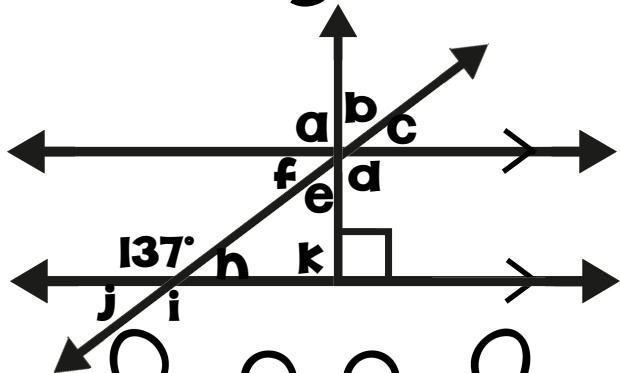
37

**Find the measures of the missing angles.**



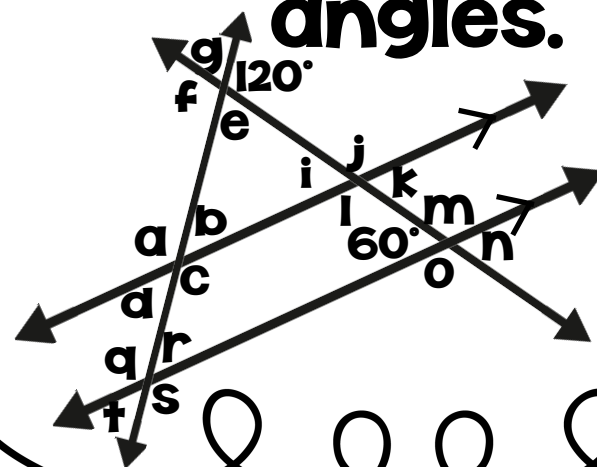
38

**Find the measures of the missing angles.**



39

**Find the measures of the missing angles.**



40

**Name:**

# **Angle properties**

## **Task cards**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>
			<b>25</b>		
			<b>27</b>		
			<b>29</b>		
			<b>31</b>		
				<b>26</b>	
				<b>28</b>	
				<b>30</b>	
				<b>32</b>	

∠ a =  
∠ b =  
∠ c =  
∠ d =

∠ e =  
∠ f =  
∠ g =

33

∠ a =  
∠ b =  
∠ d =

34

∠ a =  
∠ b =  
∠ d =  
∠ e =  
∠ f =

∠ h =  
∠ i =  
∠ j =  
∠ k =

35

∠ a =  
∠ b =  
∠ d =  
∠ f =  
∠ g =

36

∠ a =  
∠ b =  
∠ c =  
∠ d =  
∠ e =  
∠ f =

∠ g =  
∠ h =  
∠ i =  
∠ j =  
∠ l =  
∠ m =

37

∠ a =  
∠ c =  
∠ d =  
∠ e =

38

∠ a =  
∠ b =  
∠ c =  
∠ d =  
∠ e =  
∠ f =

∠ h =  
∠ i =  
∠ j =  
∠ k =

39

∠ a =  
∠ b =  
∠ c =  
∠ d =  
∠ e =  
∠ f =  
∠ g =  
∠ i =  
∠ j =

∠ k =  
∠ l =  
∠ m =  
∠ n =  
∠ o =  
∠ q =  
∠ r =  
∠ s =  
∠ t =

40

Name:

# Angle properties

## Task cards

$\angle c$ 1	$\angle c$ 2	$\angle c$ 3	$\angle c$ 4	$\angle h$ 5	$\angle f$ 6
$\angle b$ or $\angle d$ 7	$\angle e$ 8	$\angle c$ 9	$\angle j$ 10	$\angle h$ 11	$\angle c$ & $\angle f$ $\angle d$ & $\angle e$ 12
$130^\circ$ 13	$55^\circ$ 14	$150^\circ$ 15	$115^\circ$ 16	$120^\circ$ 17	$35^\circ$ 18
$55^\circ$ 19	$35^\circ$ 20	$55^\circ$ 21	$40^\circ$ 22	$33^\circ$ 23	$28^\circ$ 24
corresponding 25			opposite 26		
supplementary 27			Alternate 28		
Interior 29			complementary 30		
$\angle i$ & $\angle d$ Interior $\angle d$ & $\angle a$ opposite 31			$\angle e$ supplementary $120^\circ$ $\angle i$ corresponding to $60^\circ$ $\angle b = \angle$ 'S in triangle 32		

$\angle a = 125^\circ$ $\angle b = 55^\circ$ $\angle c = 125^\circ$ $\angle d = 55^\circ$	$\angle e = 125^\circ$ $\angle f = 55^\circ$ $\angle g = 55^\circ$	$\angle a = 150^\circ$ $\angle b = 30^\circ$ $\angle d = 30^\circ$		<b>33</b>	<b>34</b>
$\angle a = 45^\circ$ $\angle b = 90^\circ$ $\angle d = 45^\circ$ $\angle e = 90^\circ$ $\angle f = 45^\circ$	$\angle h = 45^\circ$ $\angle i = 135^\circ$ $\angle j = 45^\circ$ $\angle k = 135^\circ$	$\angle a = 60^\circ$ $\angle b = 50^\circ$ $\angle d = 120^\circ$ $\angle f = 70^\circ$ $\angle g = 110^\circ$		<b>35</b>	<b>36</b>
$\angle a = 90^\circ$ $\angle b = 90^\circ$ $\angle c = 90^\circ$ $\angle d = 90^\circ$ $\angle e = 144^\circ$ $\angle f = 36^\circ$	$\angle g = 36^\circ$ $\angle h = 144^\circ$ $\angle i = 90^\circ$ $\angle j = 54^\circ$ $\angle l = 144^\circ$ $\angle m = 36^\circ$	$\angle a = 65^\circ$ $\angle c = 25^\circ$ $\angle d = 65^\circ$ $\angle e = 90^\circ$		<b>37</b>	<b>38</b>
$\angle a = 90^\circ$ $\angle b = 47^\circ$ $\angle c = 43^\circ$ $\angle d = 90^\circ$ $\angle e = 47^\circ$ $\angle f = 43^\circ$	$\angle h = 43^\circ$ $\angle i = 137^\circ$ $\angle j = 43^\circ$ $\angle k = 90^\circ$	$\angle a = 120^\circ$ $\angle b = 60^\circ$ $\angle c = 120^\circ$ $\angle d = 60^\circ$ $\angle e = 60^\circ$ $\angle f = 120^\circ$ $\angle g = 60^\circ$ $\angle i = 60^\circ$ $\angle j = 120^\circ$	$\angle k = 60^\circ$ $\angle l = 120^\circ$ $\angle m = 120^\circ$ $\angle n = 60^\circ$ $\angle o = 120^\circ$ $\angle q = 120^\circ$ $\angle r = 60^\circ$ $\angle s = 120^\circ$ $\angle t = 60^\circ$	<b>39</b>	<b>40</b>



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