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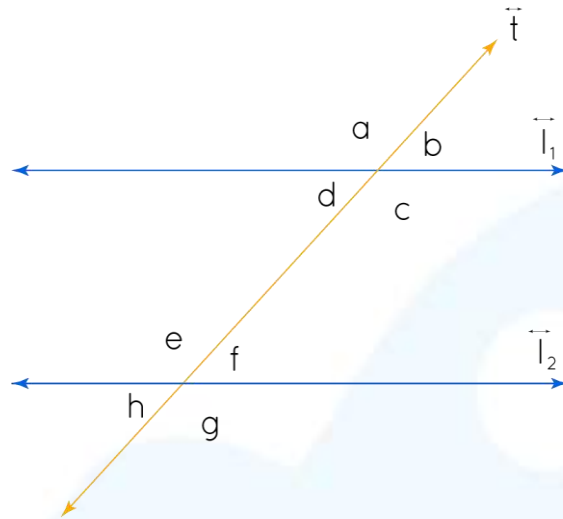
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Lines and Angles Worksheet 3

Line l_1 and l_2 are parallel lines cut by a transversal m . Write the angle relationship for each pair of angles.



1. $\angle e$ and $\angle c$ are _____.
2. $\angle b$ and $\angle h$ are _____.
3. $\angle a$ and $\angle e$ are _____.
4. $\angle h$ and $\angle f$ are _____.
5. Find the complements of the following angles.
 - i) 80°
 - ii) 30°
 - iii) 45°
 - iv) 90°

6. Find the supplements of the following angles.

- i) 3°
- ii) 13°
- iii) 165°
- iv) 128°

7. Can two complementary angles be equal? If yes, give an example of the same.

8. In the figures given below find the value of the missing angle.

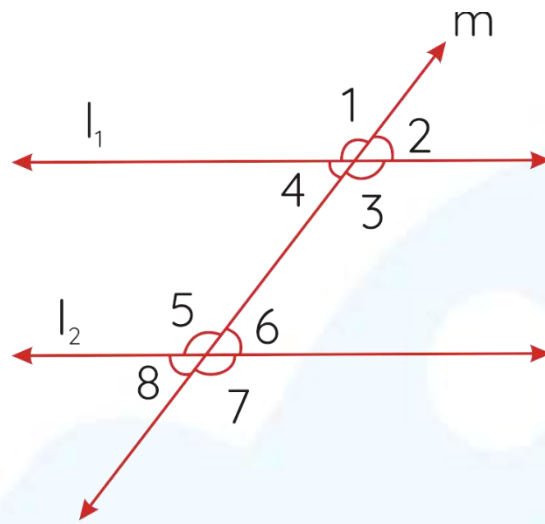


9. Two complementary angles are such that the measure of one is twice the measure of the other. Find the angles.

10. In the given figure, line $m \parallel n$ and line l pass through them. A

total of eight angles are formed that are labelled using numbers.

List four pairs of equal angles.



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ANSWERS

1)	Alternate interior angles and are thus equal.
2)	Alternate exterior angles and are thus equal.
3)	Corresponding angles and are thus equal.
4)	Vertically opposite angles and are thus equal.
5)	i) $80^\circ - 10^\circ$ ii) $30^\circ - 150^\circ$ iii) $45^\circ - 135^\circ$ iv) $90^\circ - 90^\circ$
6)	i) $3^\circ - 177^\circ$ ii) $13^\circ - 167^\circ$ iii) $165^\circ - 15^\circ$ iv) $128^\circ - 52^\circ$
7)	Yes, 45° and 45° are two equal complementary angles.
8)	190° and 60° respectively.
9)	60° and 120°
10)	1 and 5 2 and 6 4 and 8 3 and 7

FUN FACT

1. Parallel lines do meet at some point. They meet at infinity.
2. The slopes of parallel lines are always equal.
3. Parallel lines cut by a transversal create 8 angles that have relationships. If you know the measurement of 1 of the angles and the relationship between angles, you can find the remaining 7 angles.

