

## Worksheet: A Tale of Three Intersecting Lines

NIOS · Class 7 · Mathematics · 6 questions · 11 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 11

**Q1.** Find the third angle if two angles are 72 and 48 degrees. *[1 mark]*

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**Q2.** Each angle of an equilateral triangle is? *[1 mark]*

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**Q3.** A triangle has angles  $x$ ,  $x$ , and 40 degrees. Find  $x$ . *[2 marks]*

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**Q4.** Exterior angle is 110 degrees. One opposite angle is 35 degrees. Find the other. *[2 marks]*

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**Q5.** Can angles 30, 70, 80 form a triangle? *[2 marks]*

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**Q6.** Why do triangle problems often use 180 degrees? *[3 marks]*

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