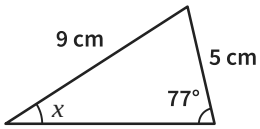
Sine rule: finding an angle

Exit ticket ANSWERS Name _____

1. $\sin x = 0.45$. Find x. Give your answer to 1 decimal place.

$x =$ 26.7°

2. Find angle x. Give your answer to 1 decimal place.



$x =$ 32.8°

3. A side of 7 cm is opposite angle x. A side of 10 cm is opposite an angle of 58°. Find x to 1 decimal place.

$x =$ 36.4°

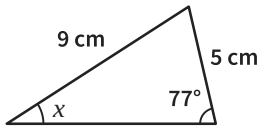
Sine rule: finding an angle

Exit ticket ANSWERS Name _____

1. $\sin x = 0.45$. Find x. Give your answer to 1 decimal place.

$x =$ 26.7°

2. Find angle x. Give your answer to 1 decimal place.



$x =$ 32.8°

3. A side of 7 cm is opposite angle x. A side of 10 cm is opposite an angle of 58°. Find x to 1 decimal place.

$x =$ 36.4°

The Maths Habit

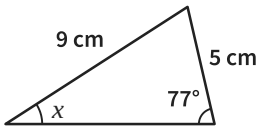
Sine rule: finding an angle

Exit ticket ANSWERS Name _____

1. $\sin x = 0.45$. Find x. Give your answer to 1 decimal place.

$x =$ 26.7°

2. Find angle x. Give your answer to 1 decimal place.



$x =$ 32.8°

3. A side of 7 cm is opposite angle x. A side of 10 cm is opposite an angle of 58°. Find x to 1 decimal place.

$x =$ 36.4°

The Maths Habit

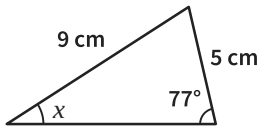
Sine rule: finding an angle

Exit ticket ANSWERS Name _____

1. $\sin x = 0.45$. Find x. Give your answer to 1 decimal place.

$x =$ 26.7°

2. Find angle x. Give your answer to 1 decimal place.



$x =$ 32.8°

3. A side of 7 cm is opposite angle x. A side of 10 cm is opposite an angle of 58°. Find x to 1 decimal place.

$x =$ 36.4°

The Maths Habit

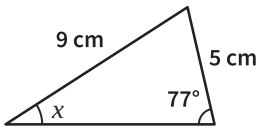
Sine rule: finding an angle

Exit ticket ANSWERS Name _____

1. $\sin x = 0.45$. Find x. Give your answer to 1 decimal place.

$x =$ 26.7°

2. Find angle x. Give your answer to 1 decimal place.



$x =$ 32.8°

3. A side of 7 cm is opposite angle x. A side of 10 cm is opposite an angle of 58°. Find x to 1 decimal place.

$x =$ 36.4°

The Maths Habit

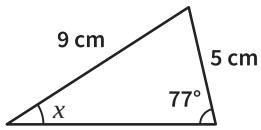
Sine rule: finding an angle

Exit ticket ANSWERS Name _____

1. $\sin x = 0.45$. Find x. Give your answer to 1 decimal place.

$x =$ 26.7°

2. Find angle x. Give your answer to 1 decimal place.



$x =$ 32.8°

3. A side of 7 cm is opposite angle x. A side of 10 cm is opposite an angle of 58°. Find x to 1 decimal place.

$x =$ 36.4°

The Maths Habit

Exit ticket Sine rule: finding an angle

1 **sin x = 0.45. Find x. Give your answer to 1 decimal place.**

$x = 26.7°$

TESTS The inverse sine: $\sin^{-1}$ gives the angle

LOOK FOR 0.0079 pressed sin, not $\sin^{-1}$

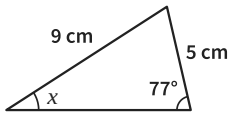
FIX IT

sin x = 0.36. Find x to 1 decimal place. $21.1°$

---

2 **Find angle x. Give your answer to 1 decimal place.**

$x = 32.8°$



TESTS The whole method: the frame with the sines as the numerators, sin x, then $\sin^{-1}$

LOOK FOR $42.8°$ took the angles in proportion to the sides: 77 × 5 ÷ 9

Math ERROR the sides swapped: 9 × sin 77° ÷ 5 is more than 1

FIX IT

A side of 6 cm is opposite angle x. A side of 11 cm is opposite 79°. Find x to 1 decimal place. $32.4°$

---

3 **A side of 7 cm is opposite angle x. A side of 10 cm is opposite an angle of 58°. Find x to 1 decimal place.**

$x = 36.4°$

TESTS Matching each side to its opposite angle from words

LOOK FOR $44.4°$ sin 58° left out: $\sin^{-1}(7 \div 10)$

$40.6°$ took the angles in proportion to the sides

FIX IT

A side of 4 cm is opposite angle x. A side of 7 cm is opposite 66°. Find x to 1 decimal place. $31.5°$