

Retrieve and Connect

# Contents

## Questions and short answers

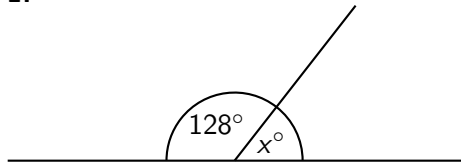
▶ Retrieve and Connect 1

## Worked solutions

▶ Retrieve and Connect 1

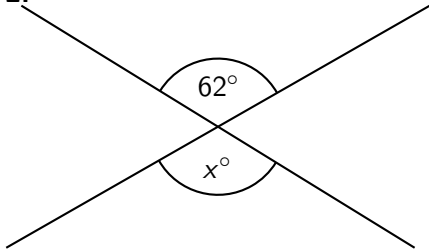
## Retrieve and Connect

1.



Find the value of  $x$ .

2.



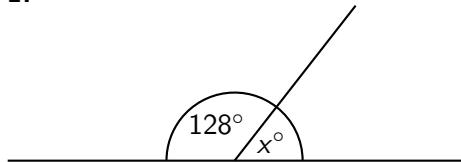
Find the value of  $x$ .

3.  $372 + 458 = \underline{\hspace{2cm}}$

4.  $(84 \div 6) \times 3 = \underline{\hspace{2cm}}$

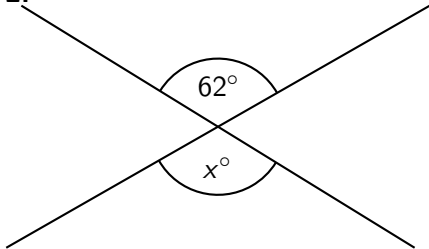
## Retrieve and Connect

1.



Find the value of  $x$ .  $x = 52^\circ$

2.



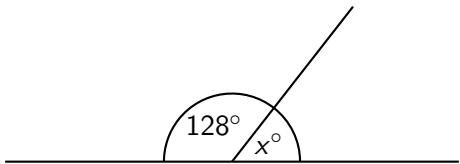
Find the value of  $x$ .  $x = 62^\circ$

3.  $372 + 458 = 830$

4.  $(84 \div 6) \times 3 = 42$

## Worked Solution: Retrieve and Connect 1, Question 1

**Question:** A ray splits a straight line. One angle is  $128^\circ$ , and the other is marked  $x^\circ$ . Find  $x$ .

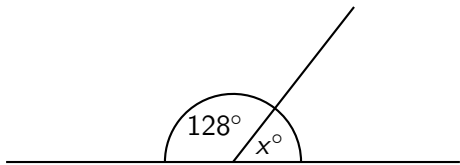


**Worked Solution:** The two angles lie on a straight line, so their sum is  $180^\circ$ . Therefore

$$x + 128^\circ = 180^\circ \Rightarrow x = 180^\circ - 128^\circ = \underline{\hspace{1cm}}.$$

## Worked Solution: Retrieve and Connect 1, Question 1

**Question:** A ray splits a straight line. One angle is  $128^\circ$ , and the other is marked  $x^\circ$ . Find  $x$ .

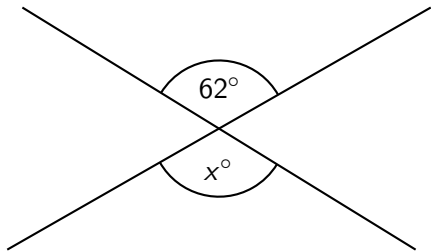


**Worked Solution:** The two angles lie on a straight line, so their sum is  $180^\circ$ . Therefore

$$x + 128^\circ = 180^\circ \Rightarrow x = 180^\circ - 128^\circ = 52^\circ.$$

## Worked Solution: Retrieve and Connect 1, Question 2

**Question:** Two straight lines intersect. The top angle is  $62^\circ$ , and the vertically opposite angle is marked  $x^\circ$ . Find  $x$ .

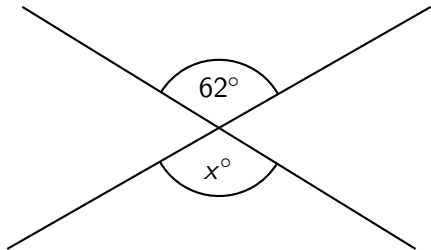


**Worked Solution:** Vertically opposite angles are equal, so

$$x = \underline{\quad}.$$

## Worked Solution: Retrieve and Connect 1, Question 2

**Question:** Two straight lines intersect. The top angle is  $62^\circ$ , and the vertically opposite angle is marked  $x^\circ$ . Find  $x$ .



**Worked Solution:** Vertically opposite angles are equal, so

$$x = 62^\circ.$$

## Worked Solution: Retrieve and Connect 1, Question 3

**Question:** Calculate  $372 + 458$ .

**Worked Solution:** Add the hundreds, then add the remaining part.

$$372 + 458 = 372 + 400 + 58 = 772 + 58 = \underline{\quad}.$$

## Worked Solution: Retrieve and Connect 1, Question 3

**Question:** Calculate  $372 + 458$ .

**Worked Solution:** Add the hundreds, then add the remaining part.

$$372 + 458 = 372 + 400 + 58 = 772 + 58 = 830.$$

## Worked Solution: Retrieve and Connect 1, Question 4

**Question:** Calculate  $(84 \div 6) \times 3$ .

**Worked Solution:** Work out the division first, then multiply by 3.

$$(84 \div 6) \times 3 = 14 \times 3 = \underline{\quad}.$$

## Worked Solution: Retrieve and Connect 1, Question 4

**Question:** Calculate  $(84 \div 6) \times 3$ .

**Worked Solution:** Work out the division first, then multiply by 3.

$$(84 \div 6) \times 3 = 14 \times 3 = 42.$$