THE STRIVING

# MUSLIM ACADEMY

Islamic and Academic Education

STAGE 5 · MATHEMATICS · PRACTICE PACK

# Geometry properties of shapes

*Year 5 of the national curriculum. Every question is worked through at the back, step by step, not just answered.*

WHAT IS INSIDE

- Angles on a straight line
- Angles in a triangle
- How each one is worked

**The Striving Muslim Academy**

2 sets · a hint on every question

Written for a parent teaching at home. No training assumed, and nothing else to buy.

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# Angles in a triangle

These get harder as you go down. Do them in order.



1. **A triangle has angles 40° and 60°. Find the third.**
   *40 and 60 together, then take that from 180°.*

2. **A triangle has angles 55° and 65°. Find the third.**
   *55 and 65 together, then take that from 180°.*

3. **A triangle has angles 30° and 90°. Find the third.**
   *30 and 90 together, then take that from 180°.*

4. **A triangle has angles 72° and 48°. Find the third.**
   *72 and 48 together, then take that from 180°.*

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# Quick check

One right answer each. Ring the letter. These are for seeing what has stuck, so do them without working anything out on paper.



1. **A triangle has angles 33° and 67°. Find the third.**
   (A) 90° (B) 80° (C) 105° (D) 38°

2. **A triangle has angles 80° and 55°. Find the third.**
   (A) 90° (B) 145° (C) 45° (D) 38°

3. **Angles on a straight line: one is 124°. Find the other.**
   (A) 90° (B) 118° (C) 40° (D) 56°

4. **A triangle has angles 55° and 65°. Find the third.**
   (A) 80° (B) 60° (C) 105° (D) 38°

5. **Angles on a straight line: one is 35°. Find the other.**
   (A) 72° (B) 40° (C) 145° (D) 56°

6. **A triangle has angles 40° and 60°. Find the third.**
   (A) 72° (B) 80° (C) 40° (D) 118°

7. **Angles on a straight line: one is 75°. Find the other.**
   (A) 105° (B) 56° (C) 90° (D) 132°

8. **Angles on a straight line: one is 90°. Find the other.**
   (A) 118° (B) 145° (C) 90° (D) 72°

9. **Angles on a straight line: one is 108°. Find the other.**
   (A) 90° (B) 72° (C) 132° (D) 40°

10. **A triangle has angles 14° and 128°. Find the third.**
    (A) 72° (B) 132° (C) 45° (D) 38°

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# How each one is worked

Every answer here was calculated, not typed. If you find one that is wrong, tell us and we will correct the pack and send it to everybody who has it.



## ANGLES ON A STRAIGHT LINE

**1. Angles on a straight line: one is 35°. Find the other.**

1. Angles on a straight line total 180°.
2. 180 − 35 = 145.
3. The other angle is 145°.

Answer: **145°**

**2. Angles on a straight line: one is 48°. Find the other.**

1. Angles on a straight line total 180°.
2. 180 − 48 = 132.
3. The other angle is 132°.

Answer: **132°**

**3. Angles on a straight line: one is 62°. Find the other.**

1. Angles on a straight line total 180°.
2. 180 − 62 = 118.
3. The other angle is 118°.

Answer: **118°**

**4. Angles on a straight line: one is 75°. Find the other.**

1. Angles on a straight line total 180°.
2. 180 − 75 = 105.
3. The other angle is 105°.

Answer: **105°**

**5. Angles on a straight line: one is 90°. Find the other.**

1. Angles on a straight line total 180°.
2. 180 − 90 = 90.
3. The other angle is 90°.

Answer: **90°**

**6. Angles on a straight line: one is 108°. Find the other.**

1. Angles on a straight line total 180°.
2. 180 − 108 = 72.
3. The other angle is 72°.

Answer: **72°**

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SAMPLE PAGES

# You have read a few pages. The pack is longer.

What you are holding is a short sample, taken from different parts of the pack so that you can see how a week is planned and what a child is actually asked to do, before you decide.

The complete pack, and the rest of the academic materials, are on our website: schemes of work for a parent teaching at home, and practice packs for the skills children get stuck on.

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Islamic and Academic Education

**Members of the homeschool community do not buy these.** If you have joined the community, the pack for the term you are working on is given to you at no cost.

Our Islamic Education classes are free. These packs are part of what pays the teachers who teach them.