THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 3 · MATHEMATICS · PRACTICE PACK

Measurement

Year 3 of the national curriculum. Every question is worked through at the back, step by step, not just answered.

WHAT IS INSIDE

- Converting units
- Area and perimeter of rectangles
- How each one is worked

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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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Converting units

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



1. **Convert 88 cm to mm.**
   There are 10 mm in one cm.

2. **Convert 59 m to cm.**
   There are 100 cm in one m.

3. **Convert 25 km to m.**
   There are 1,000 m in one km.

4. **Convert 78 kg to g.**
   There are 1,000 g in one kg.

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Area and perimeter of rectangles

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



1. **A rectangle is 12 cm by 9 cm. Find its area and perimeter.**
   Area is 12 × 9. Perimeter walks all four sides.

2. **A rectangle is 12 cm by 10 cm. Find its area and perimeter.**
   Area is 12 × 10. Perimeter walks all four sides.

3. **A rectangle is 15 cm by 3 cm. Find its area and perimeter.**
   Area is 15 × 3. Perimeter walks all four sides.

4. **A rectangle is 3 cm by 3 cm. Find its area and perimeter.**
   Area is 3 × 3. Perimeter walks all four sides.

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How each one is worked, continued

CONVERTING UNITS, CONTINUED



7. Convert 84 m to cm.

1. 1 m = 100 cm.
2. So multiply by 100.
3. 84 × 100 = 8,400 cm.

Answer: **8,400 cm**

8. Convert 52 kg to g.

1. 1 kg = 1,000 g.
2. So multiply by 1,000.
3. 52 × 1,000 = 52,000 g.

Answer: **52,000 g**

AREA AND PERIMETER OF RECTANGLES

1. A rectangle is 12 cm by 9 cm. Find its area and perimeter.

1. Area = length × width = 12 × 9 = 108 cm².
2. Perimeter = 12 + 9 + 12 + 9.
3. Perimeter = 42 cm.

Answer: **108 cm² and 42 cm**

2. A rectangle is 12 cm by 10 cm. Find its area and perimeter.

1. Area = length × width = 12 × 10 = 120 cm².
2. Perimeter = 12 + 10 + 12 + 10.
3. Perimeter = 44 cm.

Answer: **120 cm² and 44 cm**

3. A rectangle is 15 cm by 3 cm. Find its area and perimeter.

1. Area = length × width = 15 × 3 = 45 cm².
2. Perimeter = 15 + 3 + 15 + 3.
3. Perimeter = 36 cm.

Answer: **45 cm² and 36 cm**

4. A rectangle is 3 cm by 3 cm. Find its area and perimeter.

1. Area = length × width = 3 × 3 = 9 cm².
2. Perimeter = 3 + 3 + 3 + 3.
3. Perimeter = 12 cm.

Answer: **9 cm² and 12 cm**

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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.