THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 6 · MATHEMATICS · PRACTICE PACK

Ratio and proportion

Year 6 of the national curriculum. Every question is worked through at the back, step by step, not just answered.

WHAT IS INSIDE

- Sharing in a ratio
- Finding the cost of one first
- Percentages of an amount
- How each one is worked

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3 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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Finding the cost of one first

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



1. **7 pens cost 14p. What do 8 cost?**
   Find the cost of one first.

2. **8 pens cost 48p. What do 10 cost?**
   Find the cost of one first.

3. **4 pens cost 24p. What do 5 cost?**
   Find the cost of one first.

4. **9 pens cost 54p. What do 13 cost?**
   Find the cost of one first.

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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. **Share 18 in the ratio 5 : 1.**
   (A) 8 and 8 (B) 4 and 8 (C) 28 and 21 (D) 15 and 3

2. **Share 20 in the ratio 1 : 3.**
   (A) 28 and 21 (B) 4 and 8 (C) 15 and 3 (D) 5 and 15

3. **8 pens cost 48p. What do 10 cost?**
   (A) 80p (B) 30p (C) 78p (D) 60p

4. **Find 25% of 480.**
   (A) 135 (B) 120 (C) 54 (D) 43

5. **7 pens cost 14p. What do 8 cost?**
   (A) 16p (B) 30p (C) 33p (D) 78p

6. **Share 36 in the ratio 3 : 1.**
   (A) 28 and 21 (B) 8 and 8 (C) 5 and 15 (D) 27 and 9

7. **Find 10% of 240.**
   (A) 43 (B) 46 (C) 24 (D) 30

8. **10 pens cost 50p. What do 14 cost?**
   (A) 60p (B) 24p (C) 80p (D) 70p

9. **6 pens cost 48p. What do 10 cost?**
   (A) 80p (B) 24p (C) 60p (D) 78p

10. **Share 18 in the ratio 1 : 2.**
    (A) 15 and 3 (B) 28 and 21 (C) 5 and 15 (D) 6 and 12

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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.



SHARING IN A RATIO

1. Share 12 in the ratio 2 : 4.

1. Add the parts: 2 + 4 = 6.
2. One part is 12 ÷ 6 = 2.
3. So 2 × 2 = 4 and 4 × 2 = 8.

Answer: **4 and 8**

2. Share 18 in the ratio 5 : 1.

1. Add the parts: 5 + 1 = 6.
2. One part is 18 ÷ 6 = 3.
3. So 5 × 3 = 15 and 1 × 3 = 3.

Answer: **15 and 3**

3. Share 16 in the ratio 2 : 2.

1. Add the parts: 2 + 2 = 4.
2. One part is 16 ÷ 4 = 4.
3. So 2 × 4 = 8 and 2 × 4 = 8.

Answer: **8 and 8**

4. Share 20 in the ratio 1 : 3.

1. Add the parts: 1 + 3 = 4.
2. One part is 20 ÷ 4 = 5.
3. So 1 × 5 = 5 and 3 × 5 = 15.

Answer: **5 and 15**

5. Share 18 in the ratio 1 : 2.

1. Add the parts: 1 + 2 = 3.
2. One part is 18 ÷ 3 = 6.
3. So 1 × 6 = 6 and 2 × 6 = 12.

Answer: **6 and 12**

6. Share 49 in the ratio 4 : 3.

1. Add the parts: 4 + 3 = 7.
2. One part is 49 ÷ 7 = 7.
3. So 4 × 7 = 28 and 3 × 7 = 21.

Answer: **28 and 21**

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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.