THE STRIVING

# MUSLIM ACADEMY

Islamic and Academic Education

STAGE 6 · MATHEMATICS · PRACTICE PACK

# Statistics

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

WHAT IS INSIDE

- Reading a pie chart
- Calculating the mean
- Working back from the mean
- How each one is worked

**The Striving Muslim Academy**

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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# Reading a pie chart

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



1. **A pie chart of 30 people shows 1/5 of them chose tea. How many chose tea?**
   *One 5th of 30 is 6.*

2. **A pie chart of 40 people shows 1/5 of them chose tea. How many chose tea?**
   *One 5th of 40 is 8.*

3. **A pie chart of 60 people shows 1/6 of them chose tea. How many chose tea?**
   *One 6th of 60 is 10.*

4. **A pie chart of 15 people shows 1/3 of them chose tea. How many chose tea?**
   *One 3th of 15 is 5.*

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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. **The mean of 5 numbers is 9. What do they add up to?**
   (A) 22.6 (B) 45 (C) 64 (D) 10

2. **Find the mean of 19, 28, 30, 30, 38.**
   (A) 4 (B) 10 (C) 6 (D) 29

3. **Find the mean of 6, 8, 30, 38, 38.**
   (A) 24 (B) 68 (C) 33 (D) 45

4. **The mean of 5 numbers is 5. What do they add up to?**
   (A) 29 (B) 12.6 (C) 21.8 (D) 25

5. **Find the mean of 17, 24, 31, 38, 38.**
   (A) 4 (B) 5 (C) 29.6 (D) 19.8

6. **A pie chart of 88 people shows 3/8 of them chose tea. How many chose tea?**
   (A) 4 (B) 19.8 (C) 33 (D) 29

7. **Find the mean of 5, 8, 27, 33, 36.**
   (A) 68 (B) 22.6 (C) 21.8 (D) 25

8. **A pie chart of 12 people shows 1/3 of them chose tea. How many chose tea?**
   (A) 4 (B) 84 (C) 6 (D) 29

9. **Find the mean of 6, 6, 12, 13, 26.**
   (A) 29 (B) 29.6 (C) 115 (D) 12.6

10. **The mean of 5 numbers is 23. What do they add up to?**
    (A) 24 (B) 115 (C) 2 (D) 29

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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.



## READING A PIE CHART

**1. A pie chart of 30 people shows 1/5 of them chose tea. How many chose tea?**

1. The whole pie is 30 people.
2. One 5th is 30 ÷ 5 = 6.
3. 1/5 is 1 × 6 = 6.

Answer: **6**

**2. A pie chart of 40 people shows 1/5 of them chose tea. How many chose tea?**

1. The whole pie is 40 people.
2. One 5th is 40 ÷ 5 = 8.
3. 1/5 is 1 × 8 = 8.

Answer: **8**

**3. A pie chart of 60 people shows 1/6 of them chose tea. How many chose tea?**

1. The whole pie is 60 people.
2. One 6th is 60 ÷ 6 = 10.
3. 1/6 is 1 × 10 = 10.

Answer: **10**

**4. A pie chart of 15 people shows 1/3 of them chose tea. How many chose tea?**

1. The whole pie is 15 people.
2. One 3th is 15 ÷ 3 = 5.
3. 1/3 is 1 × 5 = 5.

Answer: **5**

**5. A pie chart of 88 people shows 3/8 of them chose tea. How many chose tea?**

1. The whole pie is 88 people.
2. One 8th is 88 ÷ 8 = 11.
3. 3/8 is 3 × 11 = 33.

Answer: **33**

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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.