THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 5 · MATHEMATICS · PRACTICE PACK

Number
fractions (including decimals and percentages)

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

WHAT IS INSIDE

- Adding fractions with the same denominator
- Adding fractions with different denominators
- Fractions, decimals and percentages
- 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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Adding fractions with different denominators

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



1. **1/2 + 2/4**

   The smallest number both 2 and 4 divide into is 4.

2. **2/3 + 5/6**

   The smallest number both 3 and 6 divide into is 6.

3. **1/2 + 2/6**

   The smallest number both 2 and 6 divide into is 6.

4. **3/4 + 5/8**

   The smallest number both 4 and 8 divide into is 8.

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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. **Write 52/100 as a decimal and a percentage.**
   (A) 0.52 and 52% (B) 0.43 and 43% (C) 0.9 and 90% (D) 0.55 and 55%

2. **Write 43/100 as a decimal and a percentage.**
   (A) 0.43 and 43% (B) 0.52 and 52% (C) 0.9 and 90% (D) 0.6 and 60%

3. **4/20 + 7/20**
   (A) 1/4 (B) 4/5 (C) 11/20 (D) 41/24

4. **5/6 + 7/8**
   (A) 41/24 (B) 5/6 (C) 7/12 (D) 3/2

5. **6/15 + 2/15**
   (A) 11/8 (B) 8/15 (C) 3/2 (D) 4/5

6. **5/16 + 14/16**
   (A) 19/16 (B) 41/24 (C) 3/4 (D) 1/2

7. **4/5 + 3/10**
   (A) 4/3 (B) 19/16 (C) 1/4 (D) 11/10

8. **1/4 + 1/4**
   (A) 8/15 (B) 11/10 (C) 3/2 (D) 1/2

9. **Write 4/5 as a decimal and a percentage.**
   (A) 0.8 and 80% (B) 0.625 and 62.5% (C) 0.55 and 55% (D) 0.52 and 52%

10. **4/10 + 4/10**
    (A) 4/5 (B) 41/24 (C) 1/2 (D) 3/4

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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.



ADDING FRACTIONS WITH THE SAME DENOMINATOR

1. 1/4 + 1/4

1. The denominators are the same, so add the numerators.
2. 1 + 1 = 2, giving 2/4.
3. Simplify: 2/4 = 1/2.

Answer: **1/2**

2. 5/6 + 3/6

1. The denominators are the same, so add the numerators.
2. 5 + 3 = 8, giving 8/6.
3. Simplify: 8/6 = 4/3.

Answer: **4/3**

3. 4/8 + 2/8

1. The denominators are the same, so add the numerators.
2. 4 + 2 = 6, giving 6/8.
3. Simplify: 6/8 = 3/4.

Answer: **3/4**

4. 4/10 + 4/10

1. The denominators are the same, so add the numerators.
2. 4 + 4 = 8, giving 8/10.
3. Simplify: 8/10 = 4/5.

Answer: **4/5**

5. 2/12 + 1/12

1. The denominators are the same, so add the numerators.
2. 2 + 1 = 3, giving 3/12.
3. Simplify: 3/12 = 1/4.

Answer: **1/4**

6. 6/15 + 2/15

1. The denominators are the same, so add the numerators.
2. 6 + 2 = 8, giving 8/15.
3. Simplify: 8/15 = 8/15.

Answer: **8/15**

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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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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.