THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 1 · MATHEMATICS · PRACTICE PACK

Geometry position and direction

Year 1 of the national curriculum. Every question is worked through at the back, step by step, not just answered.

WHAT IS INSIDE

- Quarter, half and whole turns
- Where things are
- 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.

strivingmuslimacademy.com

Quarter, half and whole turns

These get harder as you go down, so do them in order.



1. **You are facing north. You make a quarter turn clockwise. Which way are you facing now?**
   One quarter turn moves you on by one, so a quarter turn is 1 of them.

2. **You are facing south. You make a quarter turn clockwise. Which way are you facing now?**
   One quarter turn moves you on by one, so a quarter turn is 1 of them.

3. **You are facing north. You make a half turn clockwise. Which way are you facing now?**
   One quarter turn moves you on by one, so a half turn is 2 of them.

4. **You are facing east. You make a half turn clockwise. Which way are you facing now?**
   One quarter turn moves you on by one, so a half turn is 2 of them.

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Where things are

These get harder as you go down, so do them in order.



1. **The ball is in front of the box. Where is the box?**
   The opposite of in front is behind.

2. **The ball is above the box. Where is the box?**
   If one thing is above, the other is below.

3. **The ball is to the left of the box. Where is the box?**
   Left and right swap over when you look the other way.

4. **The ball is on top of the box. Where is the box?**
   Whatever is on top has something underneath it.

5. **The ball is next to the box. Where is the box?**
   This one does not change. Next to works both ways.

6. **The ball is inside the box. Where is the box?**
   If the ball is inside, the box is the thing around it.

7. **The ball is behind the box. Where is the box?**
   Behind swaps over to in front of.

8. **The ball is below the box. Where is the box?**
   If one thing is below, the other is above.

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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.



QUARTER, HALF AND WHOLE TURNS

1. You are facing north. You make a quarter turn clockwise. Which way are you facing now?

1. Clockwise goes north, east, south, west, and back to north.
2. A quarter turn is 1 quarter turn.
3. From north, moving on 1 brings you to east.

Answer: **east**

2. You are facing south. You make a quarter turn clockwise. Which way are you facing now?

1. Clockwise goes north, east, south, west, and back to north.
2. A quarter turn is 1 quarter turn.
3. From south, moving on 1 brings you to west.

Answer: **west**

3. You are facing north. You make a half turn clockwise. Which way are you facing now?

1. Clockwise goes north, east, south, west, and back to north.
2. A half turn is 2 quarter turns.
3. From north, moving on 2 brings you to south.

Answer: **south**

4. You are facing east. You make a half turn clockwise. Which way are you facing now?

1. Clockwise goes north, east, south, west, and back to north.
2. A half turn is 2 quarter turns.
3. From east, moving on 2 brings you to west.

Answer: **west**

5. You are facing north. You make a three-quarter turn clockwise. Which way are you facing now?

1. Clockwise goes north, east, south, west, and back to north.
2. A three-quarter turn is 3 quarter turns.
3. From north, moving on 3 brings you to west.

Answer: **west**

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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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strivingmuslimacademy.com

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.