THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 2 · MATHEMATICS · PRACTICE PACK

Geometry position and direction

Year 2 of the national curriculum. Every question is worked through at the back, step by step, not just answered.

WHAT IS INSIDE

- Patterns and sequences
- Clockwise and anti-clockwise
- Turns and right angles
- 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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Turns and right angles

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



1. **How many right angles are there in a quarter turn?**
   A quarter turn is 1 quarter of a turn.

2. **How many right angles are there in a half turn?**
   A half turn is 2 quarters of a turn.

3. **How many right angles are there in a three-quarter turn?**
   A three-quarter turn is 3 quarters of a turn.

4. **How many right angles are there in a whole turn?**
   A whole turn is 4 quarters of a turn.

5. **Which turn is made of 1 right angle?**
   Each right angle is a quarter of the way round, so count 1 quarter.

6. **Which turn is made of 2 right angles?**
   Each right angle is a quarter of the way round, so count 2 quarters.

7. **Which turn is made of 3 right angles?**
   Each right angle is a quarter of the way round, so count 3 quarters.

8. **Which turn is made of 4 right angles?**
   Each right angle is a quarter of the way round, so count 4 quarters.

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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.



PATTERNS AND SEQUENCES

1. What comes next? 2, 4, 6, 8, ___

1. Compare each number with the one before it.
2. The pattern is that it goes up by 2 each time.
3. So after 8 comes 10.

Answer: **10**

2. What comes next? 5, 10, 15, 20, ___

1. Compare each number with the one before it.
2. The pattern is that it goes up by 5 each time.
3. So after 20 comes 25.

Answer: **25**

3. What comes next? 3, 6, 9, 12, ___

1. Compare each number with the one before it.
2. The pattern is that it goes up by 3 each time.
3. So after 12 comes 15.

Answer: **15**

4. What comes next? 20, 18, 16, 14, ___

1. Compare each number with the one before it.
2. The pattern is that it goes down by 2 each time.
3. So after 14 comes 12.

Answer: **12**

5. What comes next? 1, 3, 5, 7, ___

1. Compare each number with the one before it.
2. The pattern is that it goes up by 2 each time.
3. So after 7 comes 9.

Answer: **9**

6. What comes next? 50, 40, 30, 20, ___

1. Compare each number with the one before it.
2. The pattern is that it goes down by 10 each time.
3. So after 20 comes 10.

Answer: **10**

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How each one is worked, continued

CLOCKWISE AND ANTI-CLOCKWISE, CONTINUED



4. You face south and make a three-quarter turn clockwise. Which way do you face now?

1. Clockwise turns north to east to south to west.
2. A three-quarter turn is 3 quarter turns.
3. From south, 3 clockwise turns lands on east.

Answer: **east**

5. You face east and make a three-quarter turn anti-clockwise. Which way do you face now?

1. Anti-clockwise turns north to west to south to east.
2. A three-quarter turn is 3 quarter turns.
3. From east, 3 anti-clockwise turns lands on south.

Answer: **south**

6. You face west and make a quarter turn anti-clockwise. Which way do you face now?

1. Anti-clockwise turns north to west to south to east.
2. A quarter turn is 1 quarter turn.
3. From west, 1 anti-clockwise turn lands on south.

Answer: **south**

7. You face south and make a half turn anti-clockwise. Which way do you face now?

1. Anti-clockwise turns north to west to south to east.
2. A half turn is 2 quarter turns.
3. From south, 2 anti-clockwise turns lands on north.

Answer: **north**

8. You face west and make a whole turn clockwise. Which way do you face now?

1. Clockwise turns north to east to south to west.
2. A whole turn is 4 quarter turns.
3. From west, 4 clockwise turns lands on 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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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.