Reasoning and Problem Solving
Step 1: Describe Turns

National Curriculum Objectives:

Mathematics Year 1: (1P2) Describe position, direction and movement, including whole, half, quarter and three-quarter turns

Differentiation:

Questions 1, 4 and 7 (Problem Solving)
Developing Describe a single turn using a visual representation.
Expected Describe possible turns (up to 2) which can explain a completed movement using a visual representation.
Greater Depth Describe possible turns (up to 3) which can explain a completed movement using a visual representation.

Questions 2, 5 and 8 (Problem Solving)
Developing Describe two single turns to fit items into box pictures.
Expected Describe 3 single turns to fit items to their shadows.
Greater Depth Describe multiple single turns to match up foot prints and weather symbols.

Questions 3, 6 and 9 (Reasoning)
Developing Consider a single instruction and turns made. Spot and describe any errors.
Expected Consider an instruction (with up to 2 parts) and turns made. Spot and describe any errors.
Greater Depth Consider an instruction (with up to 3 parts) and turns made. Spot and describe any errors.

More Year 1 Position and Direction resources.

Did you like this resource? Don't forget to review it on our website.

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Describe Turns

1a. Angela has turned her game piece once.

Which turn could leave her facing this way?

D

PS

Describe Turns

1b. Toby has turned his game piece once.

Which turn could leave him facing this way?

D

PS

2a. The trucks need to turn to match the picture on their boxes.

What turn should they each make?

D

PS

2b. The cars need to turn to match the picture on their boxes.

What turn should they each make?

D

PS

3a. Dion was asked to turn the pencil one quarter turn.

Did he follow the instructions? Explain and correct any mistakes you find.

D

R

3b. Jennie was asked to turn the flower one half turn.

Did she follow the instructions? Explain and correct any mistakes you find.

D

R

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Describe Turns

4a. Josie has turned her game piece twice in the same direction.

Which two turns could leave her facing this way?

E PS

Describe Turns

4b. Alum has turned his game piece twice in the same direction.

Which two turns could leave him facing this way?

E PS

5a. The jigsaw pieces need to turn to fit their space.

What turn should they each make?

E PS

5b. The jigsaw pieces need to turn to fit their space.

What turn should they each make?

E PS

6a. Minnie was asked to turn the ruler two half turns in the same direction.

Did she follow the instructions? Explain and correct any mistakes you find.

E R

6b. Mollie was asked to turn the rubber two three quarter turns in the same direction.

Did she follow the instructions? Explain and correct any mistakes you find.

E R

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Describe Turns

7a. Demi has turned her game piece three times in the same direction.

Which three turns could leave her facing this way? Can you find more than one answer?

GD

PS

Describe Turns

7b. James has turned his game piece three times in the same direction.

Which three turns could leave him facing this way? Can you find more than one answer?

GD

PS

8a. The scientist needs to match the dinosaur feet with their prints. Which way should he turn each print?

GD

PS

8b. The weather presenter needs to match the magnets to their correct place. Which way should she turn each magnet?

GD

PS

9a. Paul was asked to turn the crayons one quarter turn, and two half turns in the same direction.

Did he follow the instructions? Explain and correct any mistakes you find.

GD

R

9b. Luke was asked to turn the water bottle one three quarter turn, one half turn and one quarter turn in the same direction.

Did he follow the instructions? Explain and correct any mistakes you find.

GD

R

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Reasoning and Problem Solving
Describe Turns

Developing

1a. A three quarter turn (to the right) or a quarter turn (to the left).

2a. The red truck needs to make a three quarter turn (to the right) or a quarter turn (to the left). The blue truck needs to make a half turn (to the right or to the left).

3a. No, Dion has turned the pencil a half turn. He needs to turn it back a quarter turn in either direction.

Expected

4a. Two quarter turns (to the right or to the left), or two three quarter turns (to the right or to the left).

5a. The mug needs to make a quarter turn (to the right) or a three quarter turn (to the left). The compass needs to make a three quarter turn (to the right) or a quarter turn (to the left). The sun does not need to turn.

6a. No, Minnie has made one half turn, she needs to make another half turn.

Greater Depth

7a. Various possible answers, for example: Deni could turn two quarter turns and one half turn (to the right or to the left).

8a. 1 – a half turn (to the right or to the left), 2 – a three quarter turn (to the right) or a quarter turn (to the left), 3 – no turn, 4 – no turn, 5 – a quarter turn (to the right) or a three quarter turn (to the left), 6 – a three quarter turn (to the right) or a quarter turn (to the left).

9a. Yes he did, the two half turns make one full turn so it looks like one quarter turn.

Reasoning and Problem Solving
Describe Turns

Developing

1b. A quarter turn (to the right) or a three quarter turn (to the left).

2b. The yellow car needs to make a three quarter turn (to the right) or a quarter turn (to the left). The red car needs to make a quarter turn (to the right) or a three quarter turn (to the left).

3b. No, Jennie has turned the flower one quarter turn, she needs to turn it one quarter turn more.

Expected

4b. Two quarter turns (to the right or to the left), or two three quarter turns (to the right or to the left).

5b. The bird needs to make a three quarter turn (to the right) or a quarter turn (to the left). The flower needs to make a quarter turn (to the right) or a three quarter turn (to the left). The tree needs to make a half turn (to the right or to the left).

6b. Yes, Mollie has turned the rubber two 3 quarter turns, which looks the same as one half turn.

Greater Depth

7b. Various possible answers, for example: James could turn three half turns (to the right or to the left), or one three quarter turn, one half turn and one quarter turn (to the right or to the left).

8b. 1 – a three quarter turn (to the right) or a quarter turn (to the left), 2 – a quarter turn (to the right) or a three quarter turn (to the left), 3 – a half turn (to the right or to the left), 4 – a half turn (to the right or to the left), 5 – a quarter turn (to the right) or a three quarter turn (to the left), 6 – a three quarter turn (to the right) or a quarter turn (to the left).

9b. No he did not. The bottle top should be pointing downwards. He needs to turn the bottle another one 3 quarter turn (or one quarter turn).

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