JRA Tutors
Private tuition and small online Study Pods

Pictograms

Grade 1 topic · Foundation and Higher · Edexcel and AQA

How to use this pack
20 questions that get harder as you go. Foundation students: aim for Questions 1–15 (30 marks) and have a go at the rest. Higher students: complete all 20. Show your working on the lines and write your final answer on the answer line, then mark yourself with the answers at the back. Diagrams are not drawn accurately. Total: 48 marks.

Warm-up

1 The pictogram shows how pupils travel to school. Key: ● = 4 pupils. How many pupils use Scooter? **[1 mark]**

Transport	Number of pupils
Scooter	● ◐
Bus	●
Walking	● ● ● ●
Cycling	● ● ● ● ●

Answer _____

2 The pictogram shows how pupils travel to school. Key: ● = 2 pupils. How many pupils use Bus? **[1 mark]**

Transport	Number of pupils
Scooter	● ● ● ●
Bus	● ● ● ● ◐
Walking	● ◐
Cycling	● ● ● ◐

Answer _____

3 The pictogram shows how pupils travel to school. Key: ● = 2 pupils. How many pupils use Walking? **[1 mark]**

Transport	Number of pupils
Scooter	● ◐
Bus	● ● ● ● ● ●
Walking	●
Cycling	● ◐

Answer _____

4 The pictogram shows how pupils travel to school. Key: ● = 4 pupils. How many pupils use Cycling? **[1 mark]**

Transport	Number of pupils
Scooter	●
Bus	● ● ● ● ● ● ◐
Walking	● ● ● ● ● ● ◐
Cycling	●

Answer _____

5 The pictogram shows how pupils travel to school. Key: ● = 10 pupils. How many pupils use Scooter? **[1 mark]**

Transport	Number of pupils
Scooter	● ● ● ●
Bus	● ●
Walking	● ● ●
Cycling	● ● ● ● ● ◐

Answer _____

Core

6 Key: ● = 10 pupils. (Half a symbol ◐ is 5.) How many more pupils use Scooter than Bus? **[2 marks]**

Transport	Number of pupils
Scooter	● ● ● ●
Bus	● ● ● ● ● ● ◐
Walking	● ●
Cycling	● ●

Answer _____

7 Key: ● = 10 pupils. (Half a symbol ◐ is 5.) How many more pupils use Scooter than Bus? **[2 marks]**

Transport	Number of pupils
Scooter	●
Bus	● ● ● ● ● ● ◐
Walking	● ● ● ● ● ●
Cycling	● ● ●

Answer _____

8 Key: ● = 4 pupils. (Half a symbol ◐ is 2.) How many more pupils use Scooter than Bus? **[2 marks]**

Transport	Number of pupils
Scooter	● ● ● ● ● ● ◐
Bus	● ●
Walking	● ● ◐
Cycling	● ● ◐

Answer _____

9 Key: ● = 4 pupils. (Half a symbol ◐ is 2.) How many more pupils use Scooter than Bus? **[2 marks]**

Transport	Number of pupils
Scooter	● ● ● ◐
Bus	● ● ● ● ◐
Walking	● ● ●
Cycling	● ● ● ◐

Answer _____

10 Key: ● = 2 pupils. (Half a symbol ◐ is 1.) How many more pupils use Scooter than Bus? **[2 marks]**

Transport	Number of pupils
Scooter	● ◐
Bus	● ● ● ◐
Walking	● ◐
Cycling	● ● ● ●

Answer _____

Stretch

11 Key: ● = 10 pupils. Work out the total number of pupils shown in the pictogram. **[3 marks]**

Transport	Number of pupils
Scooter	● ● ● ● ● ●
Bus	● ●
Walking	● ● ● ● ◐
Cycling	● ● ● ●

Answer _____

12 Key: ● = 2 pupils. Work out the total number of pupils shown in the pictogram. **[3 marks]**

Transport	Number of pupils
Scooter	● ● ◐
Bus	● ● ● ● ● ● ◐
Walking	● ● ● ● ● ●
Cycling	● ● ● ● ● ●

Answer _____

13 Key: ● = 4 pupils. Work out the total number of pupils shown in the pictogram. **[3 marks]**

Transport	Number of pupils
Scooter	● ● ◐
Bus	●
Walking	● ● ◐
Cycling	● ● ● ● ● ● ◐

Answer _____

14 Key: ● = 4 pupils. Work out the total number of pupils shown in the pictogram. **[3 marks]**

Transport	Number of pupils
Scooter	● ● ● ● ●
Bus	● ● ● ● ●
Walking	● ● ●
Cycling	● ◐

Answer _____

15 Key: ● = 10 pupils. Work out the total number of pupils shown in the pictogram. **[3 marks]**

Transport	Number of pupils
Scooter	●
Bus	● ● ● ● ● ●
Walking	● ● ● ●
Cycling	● ● ● ●

Answer _____

Challenge

16 Key: ● = 2 pupils. What fraction of all the pupils use Walking? Give your answer in its simplest form. **[4 marks]**

Transport	Number of pupils
Scooter	● ● ◐
Bus	● ● ● ● ● ● ◐
Walking	● ● ● ● ● ●
Cycling	● ◐

Answer _____

17 Key: ● = 10 pupils. A new row is added: 55 pupils travel by scooter. How many full symbols and half symbols are needed? **[3 marks]**

Transport	Number of pupils
Scooter	● ● ●
Bus	● ● ● ●
Walking	● ● ●
Cycling	● ● ● ● ● ● ◐

Answer _____

18 Key: ● = 10 pupils. What fraction of all the pupils use Walking? Give your answer in its simplest form. **[4 marks]**

Transport	Number of pupils
Scooter	● ● ●
Bus	● ● ● ● ● ●
Walking	● ●
Cycling	● ● ● ● ● ◐

Answer _____

19 Key: ● = 4 pupils. A new row is added: 16 pupils travel by scooter. How many full symbols and half symbols are needed? **[3 marks]**

Transport	Number of pupils
Scooter	●●●●●◐
Bus	●●●●●●
Walking	●●●●●
Cycling	●●●●

Answer _____

20 Key: ● = 4 pupils. What fraction of all the pupils use Walking? Give your answer in its simplest form. **[4 marks]**

Transport	Number of pupils
Scooter	●●●●●◐
Bus	●●●●
Walking	●●●●●●
Cycling	●

Answer _____