Multiple choice questions - Pie charts, line graphs and the mean

Year: Year 6 · 10

Question 1 How many degrees are there in the whole of a pie chart?

- ◯ **A.** 100
- ◯ **B.** 180
- ◯ **C.** 360
- ◯ **D.** 400

Question 2 A pie chart shows 20 people. How many degrees stand for one person?

- ◯ **A.** 10°
- ◯ **B.** 18°
- ◯ **C.** 20°
- ◯ **D.** 36°

Question 3 What is the mean of 3, 5 and 10?

- ◯ **A.** 5
- ◯ **B.** 6
- ◯ **C.** 8
- ◯ **D.** 18

Question 4 What is the mean of 2, 4, 6 and 8?

- ◯ **A.** 4
- ◯ **B.** 5
- ◯ **C.** 6
- ◯ **D.** 20

Question 5 In a pie chart for 24 people, 6 people chose tea. What is the angle of the sector for tea?

- ◯ **A.** 60°
- ◯ **B.** 75°
- ◯ **C.** 90°
- ◯ **D.** 120°

Question 6 The total of 5 numbers is 45. What is their mean?

- ◯ **A.** 5
- ◯ **B.** 9

- ◯ **C.** 40
- ◯ **D.** 225

Question 7 What are line graphs best for showing?

- ◯ **A.** a share of a total
- ◯ **B.** how something changes over time
- ◯ **C.** how many of each type there are
- ◯ **D.** a set of fractions

Question 8 In a pie chart for 60 people, a sector has an angle of 180°. How many people does it show?

- ◯ **A.** 15
- ◯ **B.** 30
- ◯ **C.** 45
- ◯ **D.** 60

Question 9 The mean of 4 numbers is 6. What is the total?

- ◯ **A.** 10
- ◯ **B.** 18
- ◯ **C.** 24
- ◯ **D.** 1.5

Question 10 What is the mean of 10, 10 and 10?

- ◯ **A.** 10
- ◯ **B.** 30
- ◯ **C.** 3
- ◯ **D.** 0

Answer grid - Pie charts, line graphs and the mean

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Question	Answer	Explanation
1	**C**	A full circle is 360 degrees.
2	**B**	360 ÷ 20 = 18.
3	**B**	Total 18. 18 ÷ 3 = 6.
4	**B**	Total 20. 20 ÷ 4 = 5.
5	**C**	6/24 = 1/4 of 360 = 90.
6	**B**	45 ÷ 5 = 9.
7	**B**	Line graphs show change over time.
8	**B**	180° is half the circle, and half of 60 is 30.
9	**C**	4 x 6 = 24.
10	**A**	They are all the same, so the mean is 10.