Circle graphs and central angles worksheet – Grade 8

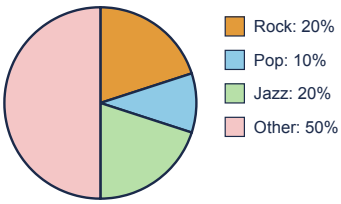
Grade 8 · Mixed level · 20 questions · **Version X2956**

Name: _____ Date: _____ Score: ___ / 20

Scan to check answers + earn stars

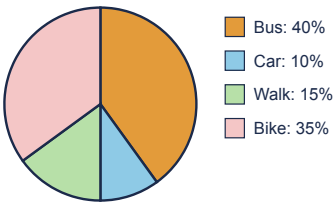
Done the worksheet? Scan the code (or enter version X2956 on this skill's page at themathmeridian.com) to check your answers online and earn stars.

1. Work out the central angle for Rock, in degrees.



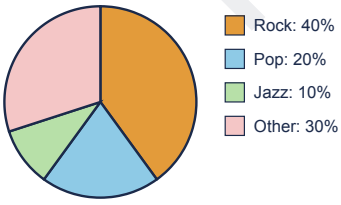
Answer: _____ °

2. 600 people were asked. How many are in Car?



Answer: _____

3. Find the central angle for Other, in degrees.



Answer: _____ °

4. A sector is 108°. What percent is that?

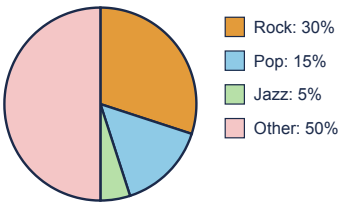
Answer: _____

5. Find the total of the central angles in a circle graph, in degrees.

Answer: _____ °

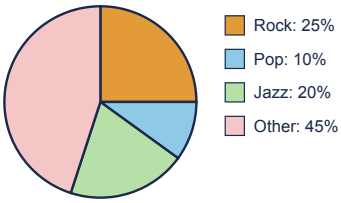
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6. What is the central angle for Pop, in degrees?



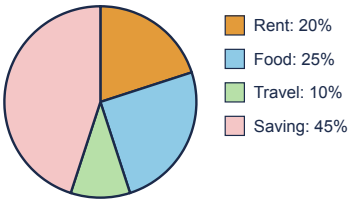
Answer: _____ °

7. Find the central angle for Rock, in degrees.



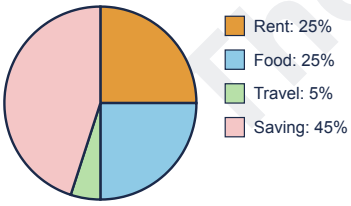
Answer: _____ °

8. Find the difference between the central angles of Saving and Rent, in degrees.



Answer: _____ °

9. Work out the difference between the central angles of Food and Travel, in degrees.



Answer: _____ °

10. 500 students were surveyed, and a sector of 180° is shown. How many students is that?

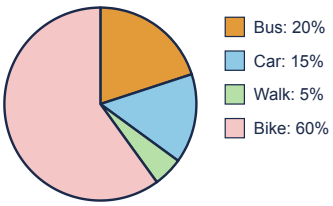
Answer: _____

11. Three central angles are 54°, 54° and 90°, and there is one more. What is the fourth angle, in degrees?

Answer: _____ °

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12. What is the difference between the central angles of Walk and Bike, in degrees?



Answer: _____ °

13. A sector of 72° stands for 720 dollars. What is the whole budget, in dollars?

Answer: $_____

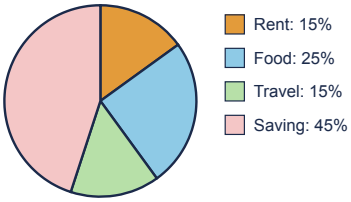
14. 400 students were surveyed, and a sector of 144° is shown. How many students is that?

Answer: _____

15. Sector A is 4 times as big as sector B, and they are the only two. What is the central angle of B, in degrees?

Answer: _____ °

16. If Rent goes up by 10 percentage points, what is its new central angle, in degrees?



Answer: _____ °

17. Emma spends 20% of a budget on Pop, which is 220 dollars. What is the total budget, in dollars?

Answer: $_____

18. Two sectors are in the ratio 3 : 1 and together make 36°. What is the larger sector, in degrees? Give your answer to one decimal place if needed.

Answer: _____

19. Leah spends 15% of a budget on Rent, which is 135 dollars. What is the total budget, in dollars?

Answer: $_____

20. Two sectors are in the ratio 3 : 1 and together make 72°. What is the larger sector, in degrees? Give your answer to one decimal place if needed.

Answer: _____

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Answer key · Version X2956

Circle graphs and central angles worksheet – Grade 8 · Grade 8 · to reprint this sheet or check the answers, enter X2956 on the skill page.

1. **72**
2. **60**
3. **108**
4. **30%**
5. **360**
6. **54**
7. **90**
8. **90**
9. **72**
10. **250**
11. **162**
12. **198**
13. **3600**
14. **160**
15. **72**
16. **90**
17. **1100**
18. **27**
19. **900**
20. **54**

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