Number Bonds of 20 Wheel

1. Find the missing numbers to make each part of the wheel total 20.
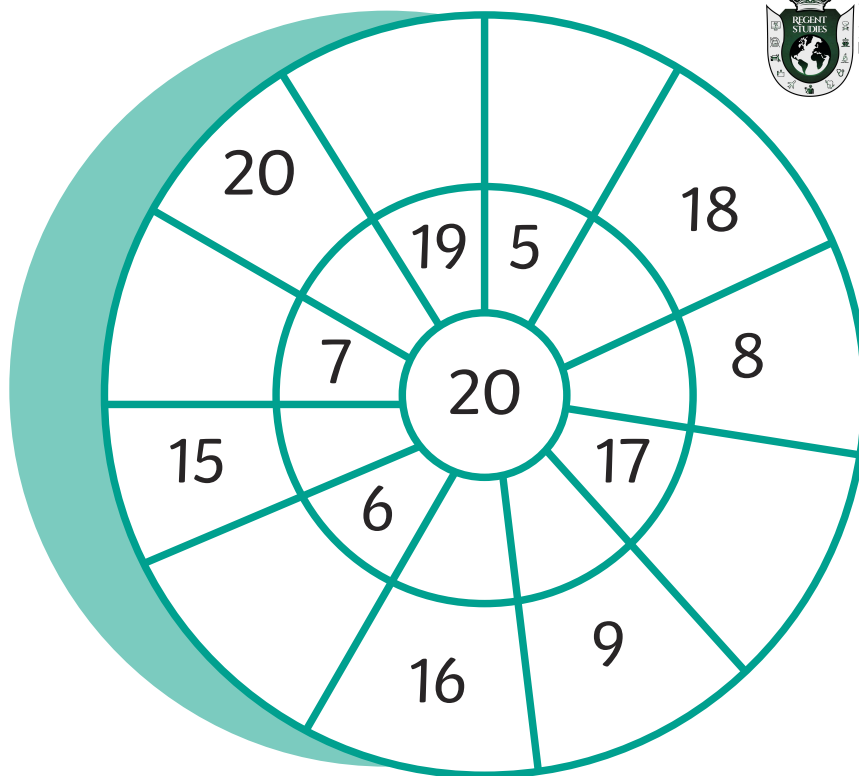
2.

If 7 + 3 = 10, then 17 + 3 = 20.

Do you agree?   yes   no

Explain your reasoning.

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3.

$12 + 8 = 20$

What other addition or subtraction facts can you find using this known fact?
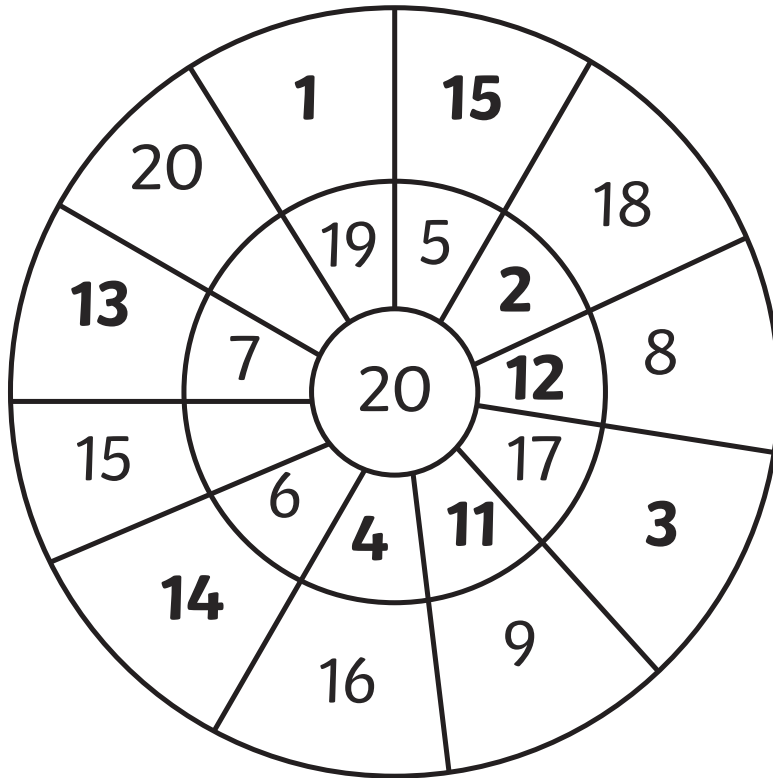
4. True or false?

$11 + 9 = 10 + 2 + 8$

Circle the correct answer.   true   false

Explain why.

Number Bonds of 20 Wheel **Answers**

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1.

Wheel of number bonds of 20: outer ring 1, 15, 18, 8, 3, 9, 16, 14, 15, 13, 20; middle ring 19, 5, 2, 12, 17, 11, 4, 6, 7; centre 20.

2. Do you agree?   (yes)   no

Explain your reasoning.

20 is 10 more than 10. 17 is 10 more than 7 but the 3 is the same. Therefore, both sides of the equal sign have increased by 10 so the number sentence is correct.

3. **8 + 12 = 20**   **20 – 12 = 8**   **12 = 20 – 8**

   20 = 8 + 12   **20 – 8 = 12**   **8 = 20 – 12**

   20 = 12 + 8

4. 11 + 9 = 10 + 2 + 8

   Circle the correct answer.   (true)   false

   Explain why.

   11 + 9 = 20. 2 + 8 = 10 so 10 + 2 + 8 = 20. Therefore, both sides of the equals sign have a total of 20.