Year 2 Mathematics
Friends of 10 & 20 - Worksheet 15
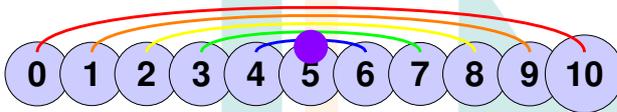
Rainbow Facts: Friends of 10

Name: _____   **Date:** _____

Section 1: Match the Friends of 10 (Fluency)

Find the pairs that make 10. These are called "Rainbow Facts"!

Question 1: Look at the Rainbow diagram:

Connect the pairs that make 10. Write the missing friend:

$$2 + \rule{3cm}{0.4pt} = 10$$

Question 2: Find the friend of 5:

$$5 + \rule{3cm}{0.4pt} = 10$$

Question 3: Find the friend of 1:

$$1 + \rule{3cm}{0.4pt} = 10$$

1

www.merittutoring.com

Question 4: Find the friend of 7:

$$7 + \rule{2cm}{0.4pt} = 10$$

Question 5: Find the friend of 4:

$$4 + \rule{2cm}{0.4pt} = 10$$

Question 6: Find the friend of 9:

$$9 + \rule{2cm}{0.4pt} = 10$$
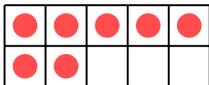
Best Friends Forever!

What did one calculator say to the other? You can COUNT on me!

2

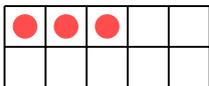## Section 2: Ten Frames & Subtraction from 10 (Reasoning)

Use ten frames to find how many more we need to make 10.

Question 7: I have 7 dots. How many more to make 10?

$$7 + \underline{\hspace{2cm}} = 10$$

Question 8: Look at the ten frame:

$$3 + \underline{\hspace{2cm}} = 10$$

Question 9: Subtraction from 10:

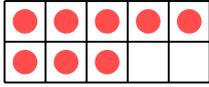$$10 - 4 = \underline{\hspace{2cm}}$$

Question 10: Subtraction from 10:

$$10 - 6 = \underline{\hspace{2cm}}$$

3

www.merittutoring.com

Question 11: I have 8 dots. How many more to make 10?

$$8 + \rule{3cm}{0.4pt} = 10$$

Question 12: Subtraction from 10:

$$10 - 2 = \rule{3cm}{0.4pt}$$

Rainbow Master!

What did the rainbow say to number 10? You make me feel COMPLETE!

4

Section 3: Word Problems Challenge

Solve these real-life problems about making 10.

Question 13: I need 10 blocks to build a tower. I have 3 blocks. How many more blocks do I need?

Answer: _____ blocks

Question 14: Find the missing number:

$$\text{_____} + 6 = 10$$

Question 15: Emma has 10 cookies. She eats 5 cookies. How many cookies are left?

Answer: _____ cookies

Question 16: Find the missing number:

$$\text{_____} + 8 = 10$$

Question 17: Jack wants 10 stickers. He has 6 stickers. How many more does he need?

Answer: _____ stickers

5

www.merittutoring.com

Question 18: There are 10 birds in total. 7 birds are in the tree. How many birds are on the ground?

Answer: _____ birds

Question 19: Find the missing number:

$$10 = 9 + \underline{\hspace{3cm}}$$

Question 20: Sarah has 10 pencils. She gives away 3 pencils. How many pencils does she have left?

Answer: _____ pencils

Friendly Ten Monster!

Why is 10 the friendliest number? Because it has the MOST friends to make it!

10

6

www.merittutoring.com

SCAN FOR HELP

Answer Key
Worksheet 15: Friends of 10

Section 1: Match the Friends of 10

1.

$$2 + \mathbf{8} = 10$$

2.

$$5 + \mathbf{5} = 10$$

3.

$$1 + \mathbf{9} = 10$$

4.

$$7 + \mathbf{3} = 10$$

5.

$$4 + \mathbf{6} = 10$$

6.

$$9 + \mathbf{1} = 10$$

Section 2: Ten Frames & Subtraction from 10

7.

$$7 + \mathbf{3} = 10$$

8.

$$3 + \mathbf{7} = 10$$

9.

$$10 - 4 = \mathbf{6}$$

7

www.merittutoring.com

10.

$$10 - 6 = \mathbf{4}$$

11.

$$8 + \mathbf{2} = 10$$

12.

$$10 - 2 = \mathbf{8}$$

Section 3: Word Problems Challenge

13. **7 blocks** (

$$10 - 3 = 7$$

)

14.

$$\mathbf{4} + 6 = 10$$

15. **5 cookies** (

$$10 - 5 = 5$$

)

16.

$$\mathbf{2} + 8 = 10$$

17. **4 stickers** (

$$10 - 6 = 4$$

)

18. **3 birds** (

$$10 - 7 = 3$$

)

19.

$$10 = 9 + \mathbf{1}$$

www.merittutoring.com

20. **7 pencils** (

$$10 - 3 = 7$$

)

www.merittutoring.com

Year 2 Mathematics
Friends of 10 & 20 - Worksheet 16

Pattern Connection: Friends of 20

Name: _____   **Date:** _____

Section 1: Using Patterns from 10 to 20 (Fluency)

If you know friends of 10, you can find friends of 20!

Question 1: If 4 + 6 = 10, then what is 14 + 6?

$$14 + 6 = \rule{3cm}{0.4pt}$$

Question 2: If 2 + 8 = 10, then what is 12 + 8?

$$12 + 8 = \rule{3cm}{0.4pt}$$

Question 3: If 5 + 5 = 10, then what is 15 + 5?

$$15 + 5 = \rule{3cm}{0.4pt}$$
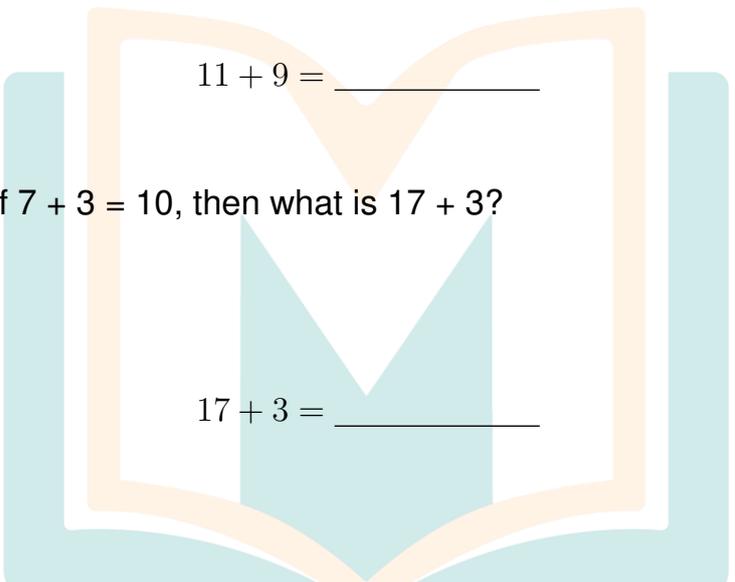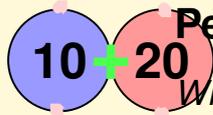
10

Question 4: If 3 + 7 = 10, then what is 13 + 7?

$$13 + 7 = \underline{\hspace{3cm}}$$

Question 5: If 1 + 9 = 10, then what is 11 + 9?

$$11 + 9 = \underline{\hspace{3cm}}$$

Question 6: If 7 + 3 = 10, then what is 17 + 3?

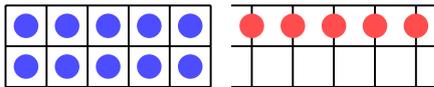$$17 + 3 = \underline{\hspace{3cm}}$$

10+20 Perfect Pattern Partners!

Why do 10 and 20 get along so well? Because they're TEN-derly connected!

11

www.merittutoring.com

Section 2: Making 20 with Double Ten Frames (Reasoning)

Use double ten frames to help you make 20!

Question 7: Look at the double ten frame showing 15:

$$15 + \rule{2cm}{0.4pt} = 20$$

Question 8: Circle the pair that makes 20:

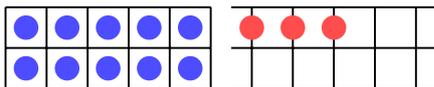**(a)** 15 and 5   **(b)** 15 and 4

Answer: _____

Question 9: Fill in the blank:

$$11 + \rule{2cm}{0.4pt} = 20$$

Question 10: Look at the double ten frame showing 13:

$$13 + \rule{2cm}{0.4pt} = 20$$

12

www.merittutoring.com

Question 11: Fill in the blank:

$$16 + \underline{\hspace{2cm}} = 20$$

Question 12: Look at the double ten frame showing 18:

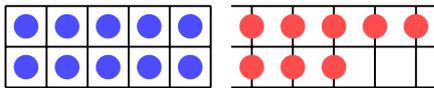$$18 + \underline{\hspace{2cm}} = 20$$

Question 13: Fill in the blank:

$$14 + \underline{\hspace{2cm}} = 20$$

Double Ten Champions!

Why did the two ten frames become best friends? Because together they make TWENTY-rific!

13

Section 3: Rapid Recall & Subtraction from 20 (Challenge)

Quick thinking! Answer these questions as fast as you can!

Question 14: 20 take away 5 is:

$$20 - 5 = \underline{\hspace{3cm}}$$

Question 15: Start at 20. Count back 10. What number do you land on?

Answer: \underline{\hspace{3cm}}

Question 16: 20 take away 8 is:

$$20 - 8 = \underline{\hspace{3cm}}$$

Question 17: Find the missing number:

$$\underline{\hspace{3cm}} + 12 = 20$$

Question 18: 20 take away 3 is:

$$20 - 3 = \underline{\hspace{3cm}}$$

Question 19: I have 20 marbles. I give 7 marbles to my friend. How many

14

www.merittutoring.com

marbles do I have left?

Answer: _____ marbles

Question 20: Find the missing number:

$$20 = 19 + \underline{\hspace{2cm}}$$

Twenty Master Champion!

What's the best thing about number 20? It's TWICE as nice as 10!

www.merittutoring.com

Answer Key
Worksheet 16: Friends of 20

Section 1: Using Patterns from 10 to 20

1.

$$14 + 6 = \mathbf{20}$$

(Pattern:

$$4 + 6 = 10$$

, so

$$14 + 6 = 20$$

)

2.

$$12 + 8 = \mathbf{20}$$

(Pattern:

$$2 + 8 = 10$$

, so

$$12 + 8 = 20$$

)

3.

$$15 + 5 = \mathbf{20}$$

(Pattern:

$$5 + 5 = 10$$

, so

$$15 + 5 = 20$$

)

16

4.

$$13 + 7 = \mathbf{20}$$

(Pattern:

$$3 + 7 = 10$$

, so

$$13 + 7 = 20$$

)

5.

$$11 + 9 = \mathbf{20}$$

(Pattern:

$$1 + 9 = 10$$

, so

$$11 + 9 = 20$$

)

6.

$$17 + 3 = \mathbf{20}$$

(Pattern:

$$7 + 3 = 10$$

, so

$$17 + 3 = 20$$

)

Section 2: Making 20 with Double Ten Frames

7.

$$15 + \mathbf{5} = 20$$

8. **(a) 15 and 5** (because

$$15 + 5 = 20$$

17

)

9.

$$11 + \mathbf{9} = 20$$

10.

$$13 + \mathbf{7} = 20$$

11.

$$16 + \mathbf{4} = 20$$

12.

$$18 + \mathbf{2} = 20$$

13.

$$14 + \mathbf{6} = 20$$

Section 3: Rapid Recall & Subtraction from 20

14.

$$20 - 5 = \mathbf{15}$$

15. **10** (Count back 10 from 20)

16.

$$20 - 8 = \mathbf{12}$$

17.

$$\mathbf{8} + 12 = 20$$

18.

$$20 - 3 = \mathbf{17}$$

19. **13 marbles** (

$$20 - 7 = 13$$

)

18

www.merittutoring.com

20.

$$20 = 19 + \mathbf{1}$$

Brilliant Work, Friends of 10 & 20 Experts!

You've mastered the rainbow facts and their patterns!