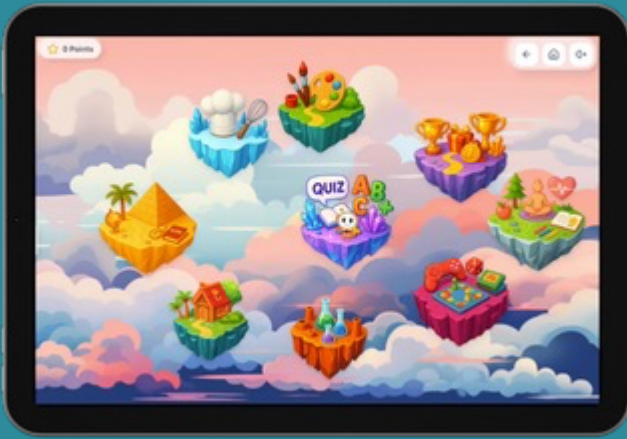


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Rainbow Facts Foundation

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Rainbow Facts to 10

Two numbers can join to make 10.



● $0 + 10 = 10$

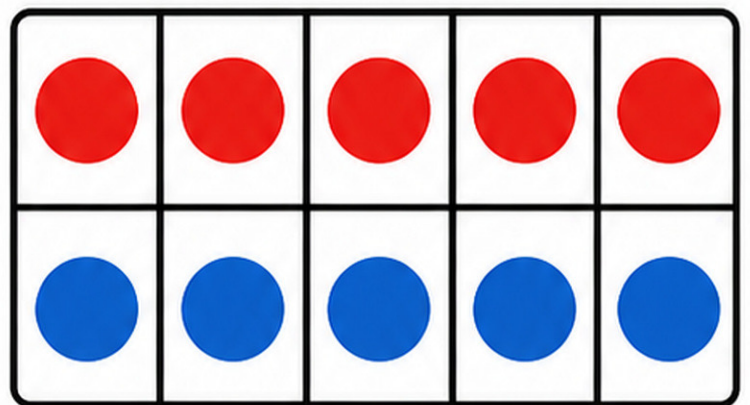
● $1 + 9 = 10$

● $2 + 8 = 10$

● $3 + 7 = 10$

● $4 + 6 = 10$

● $5 + 5 = 10$



Say the pair. Build the pair. Check the ten frame.

Rainbow Partner Path

START

0 + —

1 + —

2 + —

3 + —

10 + —

9 + —

8 + —

7 + —

6 + —

5 + —

4 + —

FINISH

1. Roll and move.
2. Say the partner that makes 10.
3. Check with counters.



0 - 10

1 - 9

2 - 8

3 - 7

4 - 6

5 - 5

Make Ten Match Mats

Match the cards to make 10.



0

10

$0 + 10$

1

9

$1 + 9$

2

8

$2 + 8$

3

7

$3 + 7$

4

6

$4 + 6$

5

5

$5 + 5$

Name: _____



Circle the Partner



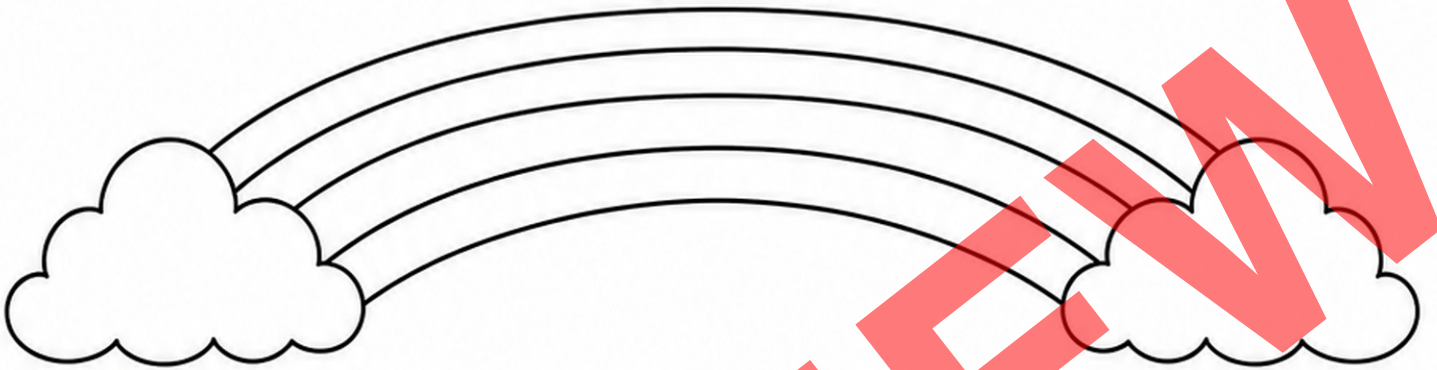
Circle the number that joins with the first number to make 10.

0	→	8	10	2
1	→	7	9	4
2	→	8	5	6
3	→	7	9	1
4	→	2	6	8
5	→	5	3	10
6	→	4	1	9
7	→	3	8	2

Name: _____

Fill the Rainbow Fact

Write the missing number to make 10.



$$0 + \square = 10$$

$$1 + \square = 10$$

$$2 + \square = 10$$

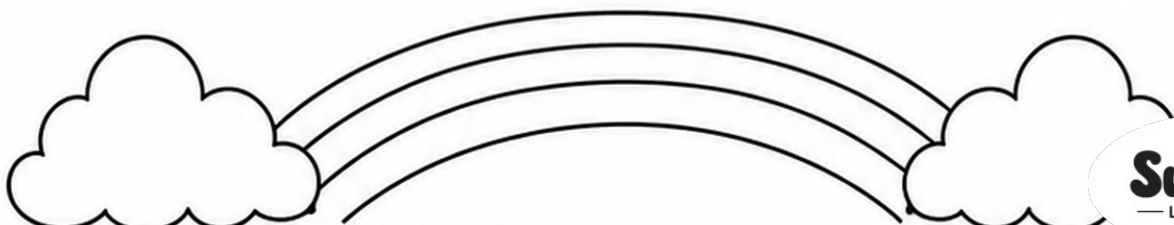
$$3 + \square = 10$$

$$4 + \square = 10$$

$$5 + \square = 10$$

$$6 + \square = 10$$

$$7 + \square = 10$$



Name: _____

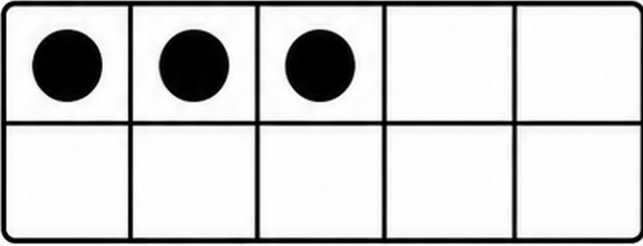


Ten Frame Partners



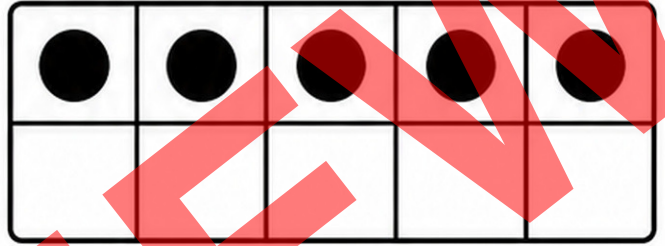
Count the dots. Write how many more make 10.

①



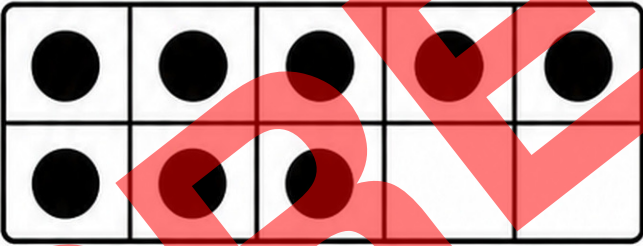
$$3 + \square = 10$$

②



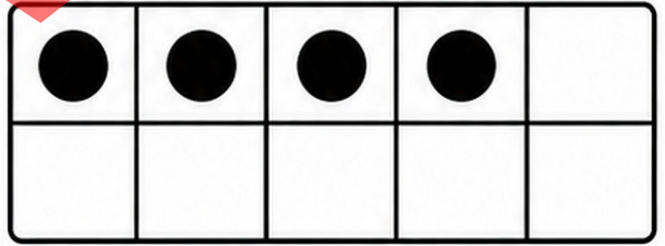
$$5 + \square = 10$$

③



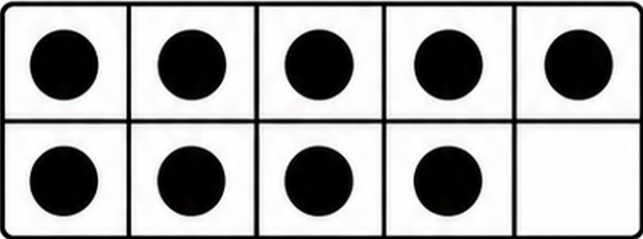
$$8 + \square = 10$$

④



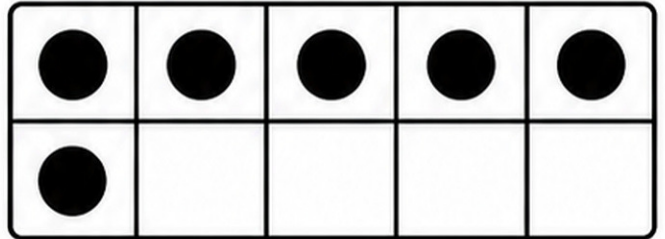
$$4 + \square = 10$$

⑤



$$9 + \square = 10$$

⑥



$$6 + \square = 10$$

Name: _____



Dominoes to Ten



Read each domino. Write the rainbow fact.

2 8

___ + ___ = 10

4 6

___ + ___ = 10

5 5

___ + ___ = 10

1 9

___ + ___ = 10

3 7

___ + ___ = 10

0 10

___ + ___ = 10

Name: _____



Draw and Write Ten



Draw more to make 10. Then write a rainbow fact.

①



$$1 + \underline{\quad} = 10$$

②



$$4 + \underline{\quad} = 10$$

③



$$5 + \underline{\quad} = 10$$

④



$$7 + \underline{\quad} = 10$$

My fact: _____

My fact: _____

Name: ANSWERS



Circle the Partner



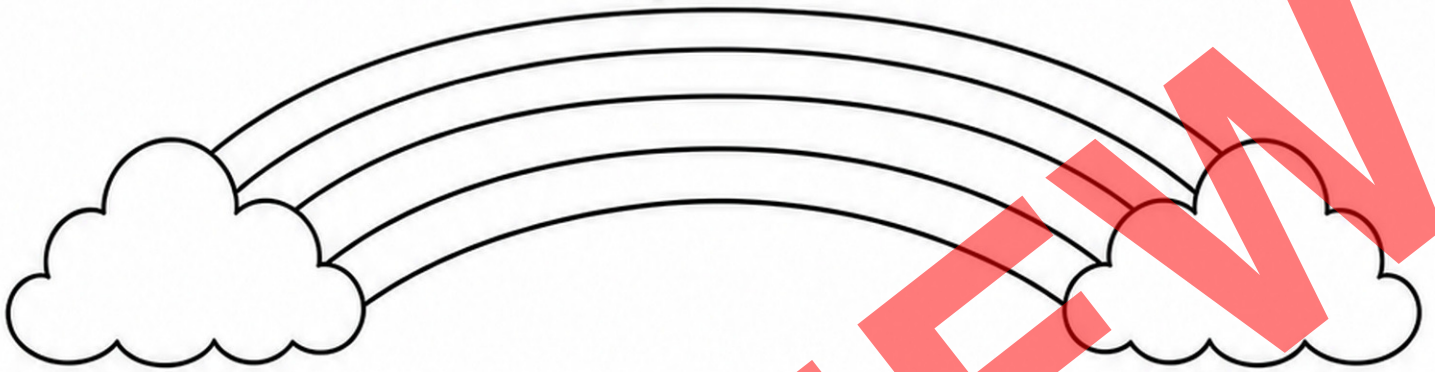
Circle the number that joins with the first number to make 10.

0	→	8	10	2
1	→	7	9	4
2	→	8	5	6
3	→	7	9	1
4	→	2	6	8
5	→	5	3	10
6	→	4	1	9
7	→	3	8	2

Name: ANSWERS

Fill the Rainbow Fact

Write the missing number to make 10.



$$0 + \boxed{10} = 10$$

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

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

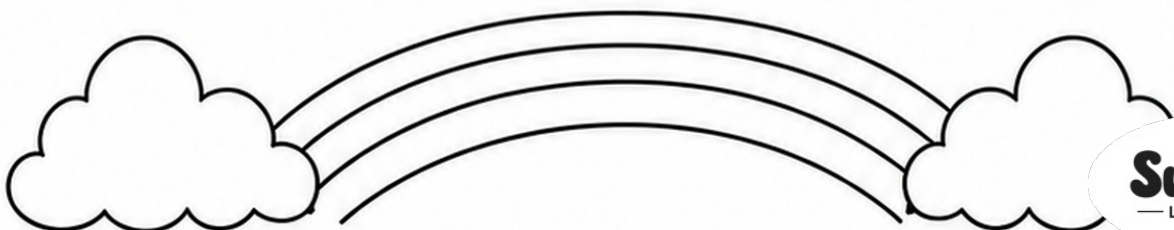
$$3 + \boxed{7} = 10$$

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

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

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

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



Name: ANSWERS

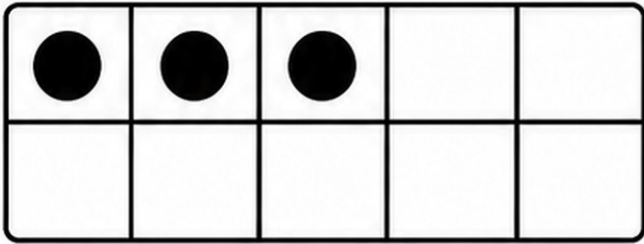


Ten Frame Partners



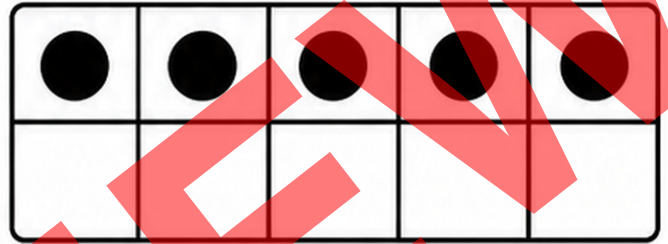
Count the dots. Write how many more make 10.

①



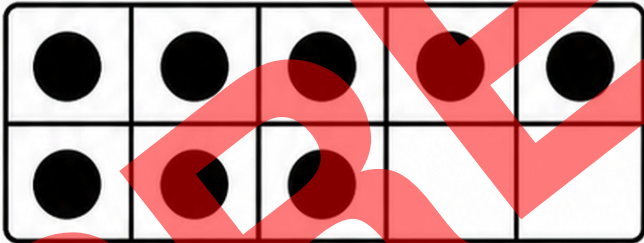
$$3 + \boxed{7} = 10$$

②



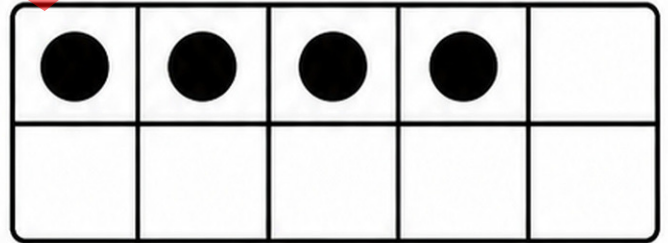
$$5 + \boxed{5} = 10$$

③



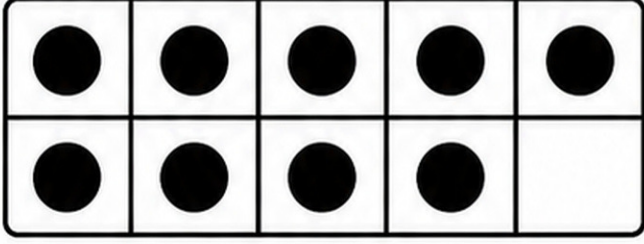
$$8 + \boxed{2} = 10$$

④



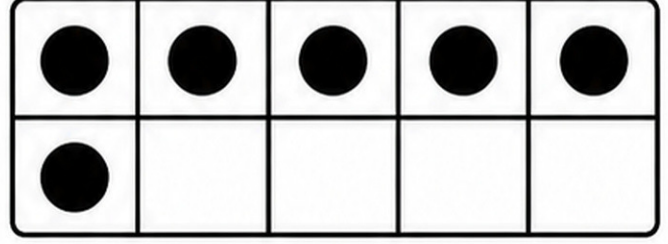
$$4 + \boxed{6} = 10$$

⑤



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

⑥



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

Name: ANSWERS



Dominoes to Ten



Read each domino. Write the rainbow fact.

2 8

$$2 + 8 = 10$$

4 6

$$4 + 6 = 10$$

5 5

$$5 + 5 = 10$$

1 9

$$1 + 9 = 10$$

3 7

$$3 + 7 = 10$$

0 10

$$0 + 10 = 10$$

Name: ANSWERS

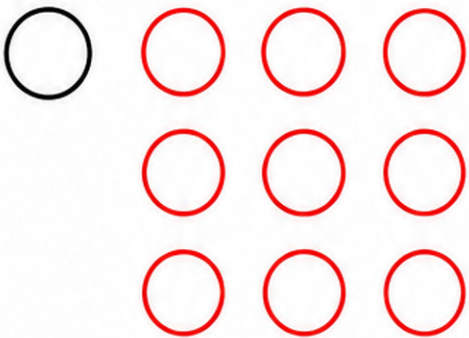


Draw and Write Ten



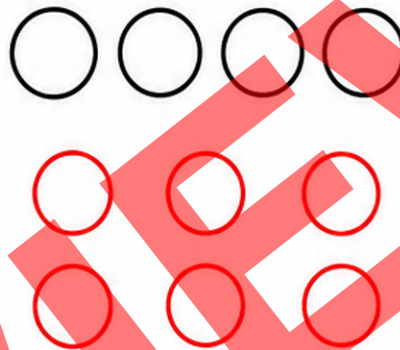
Draw more to make 10. Then write a rainbow fact.

①



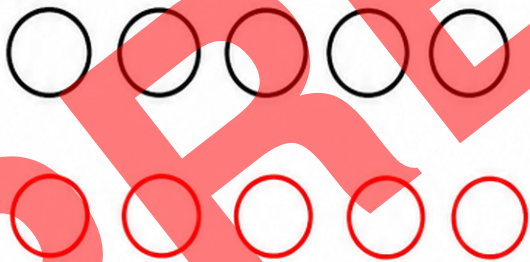
$$1 + \underline{9} = 10$$

②



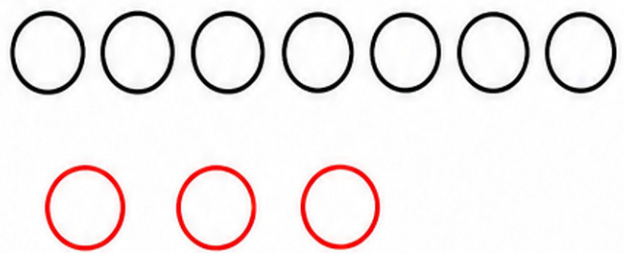
$$4 + \underline{6} = 10$$

③



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

④



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

My fact: $\underline{8 + 2 = 10}$

My fact: $\underline{6 + 4 = 10}$

Name: _____

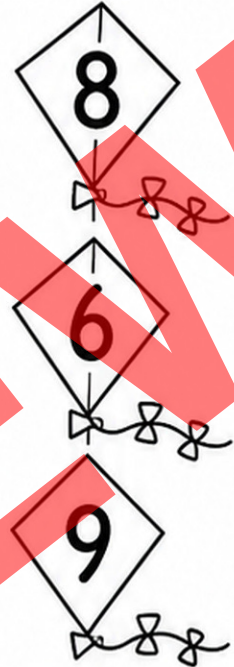


Rainbow Facts Check



1. Match the partners.

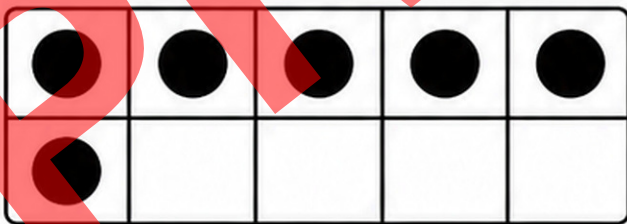




2. Write the missing number.

$$3 + \square = 10 \quad 5 + \square = 10 \quad 7 + \square = 10$$

3. Use the ten frame.



$$6 + \square = 10$$

4. Circle the pair that makes 10.

5 and 5

6 and 5

2 and 9

5. Explain one rainbow fact.



Rainbow Facts Check



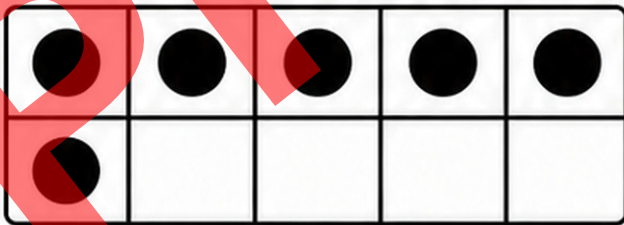
1. Match the partners.



2. Write the missing number.

$$3 + \boxed{7} = 10 \quad 5 + \boxed{5} = 10 \quad 7 + \boxed{3} = 10$$

3. Use the ten frame.



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

4. Circle the pair that makes 10.

5 and 5

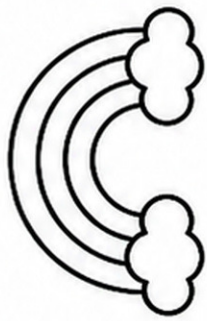
6 and 5

2 and 9

5. Explain one rainbow fact.

$$7 + 3 = 10$$

7 needs 3 more.



Rainbow Facts Foundation Rubric



Criteria	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Identifies partners to 10	Needs support.	Finds some partners.	Finds most partners.	Finds all partners.	Finds all partners quickly and accurately.
Uses models	Rarely uses models.	Uses models with help.	Uses models with some independence.	Uses models accurately.	Chooses and uses models flexibly.
Finds missing partners	Needs lots of support.	Finds some missing partners.	Finds most missing partners.	Finds all missing partners.	Finds all missing partners quickly and accurately.
Explains thinking	Unable to explain.	Explains with support.	Explains with some detail.	Explains clearly.	Explains clearly and uses number language.

Rainbow Facts



Learning Goal

We are learning to find number partners that make 10.



What Are Rainbow Facts?

Rainbow facts are two numbers that join to make 10.

They help us add quickly.



The Make-Ten Rainbow

0 and 10, 1 and 9, 2 and 8, 3 and 7, 4 and 6, 5 and 5 all make 10.



Build The Pair

Use counters, blocks or fingers.

Build the first number, then add more until you reach 10.



Use A Ten Frame

A ten frame helps us see how many spaces are filled and how many are empty.



Find The Missing Partner

Ask: how many more do I need to make 10?

For 6, I need 4 more.



Say Facts Both Ways

If 3 and 7 make 10, then 7 and 3 make 10 too.



Use A Number Line

Start at the first number.

Jump to 10 and count how many jumps you made.



Rainbow Facts Help Addition

Known facts help us solve addition.

If 8 and 2 make 10, we can remember $8 + 2$ quickly.



Rainbow Facts Help

Subtraction

If 10 is the whole and one part is 9, the other part is 1.

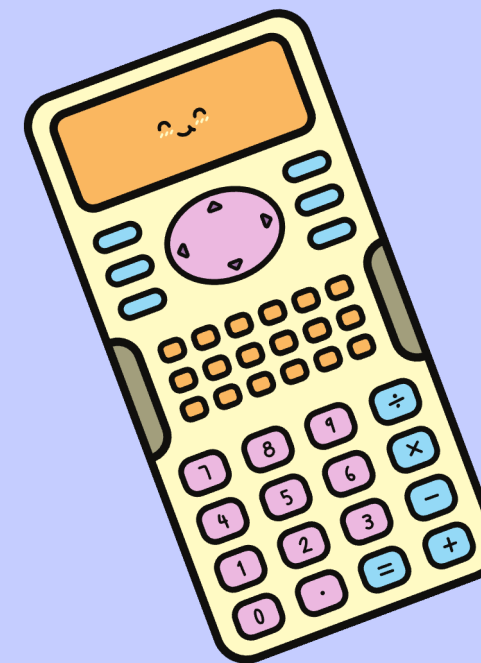
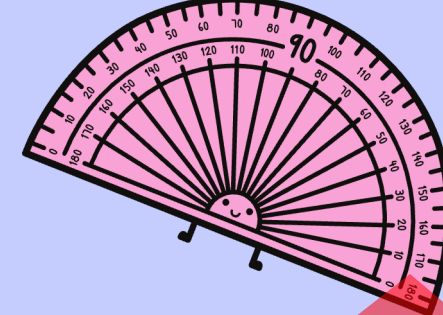
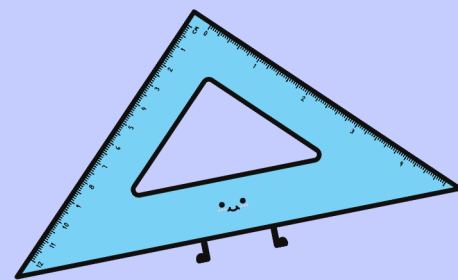
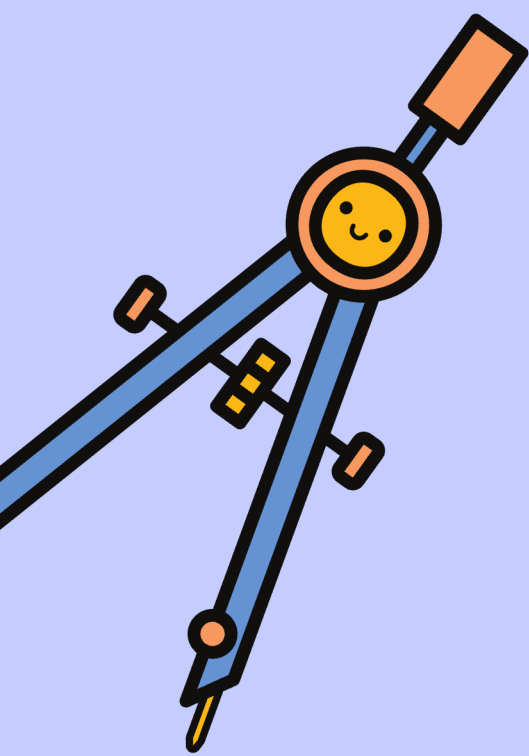


Your Turn

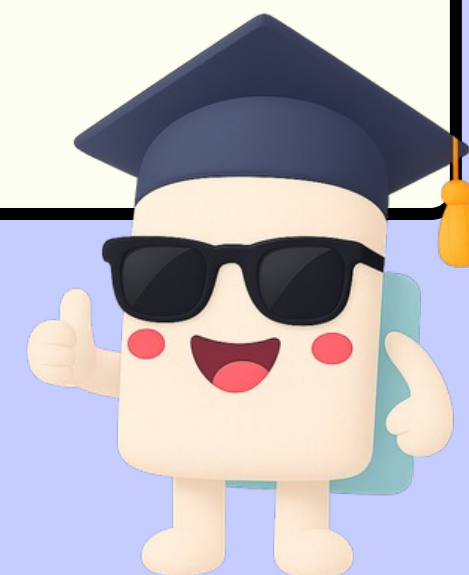
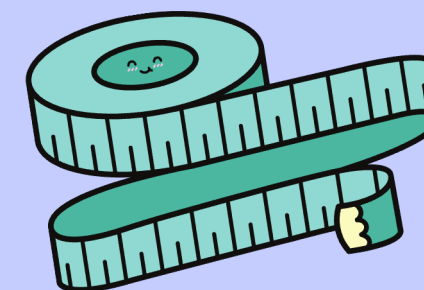
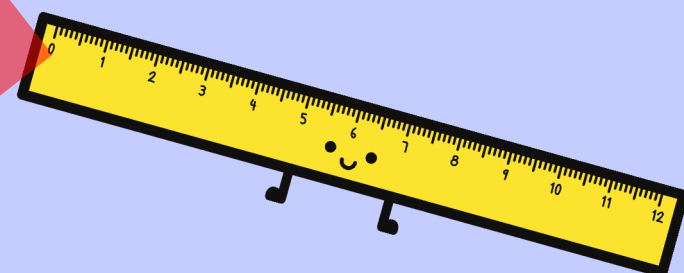
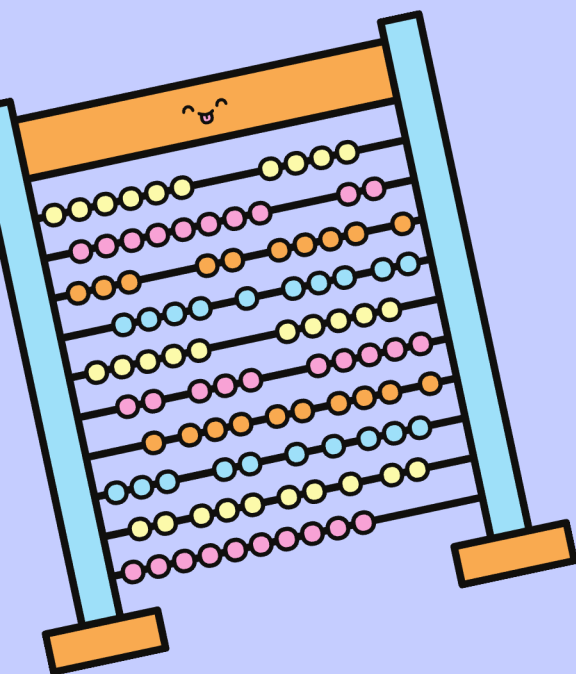
Choose a number from 0 to 10.

Build its partner, say the fact and check it on a ten frame.





Well Done!



Rainbow Facts Quiz



Question 1

True or false: Rainbow facts are pairs that make 10.



Answer 1

True. Rainbow facts make 10.



Question 2

Which number partners with 3 to make 10?

A. 5

B. 6

C. 7

D. 8



Answer 2

C. 7



Question 3

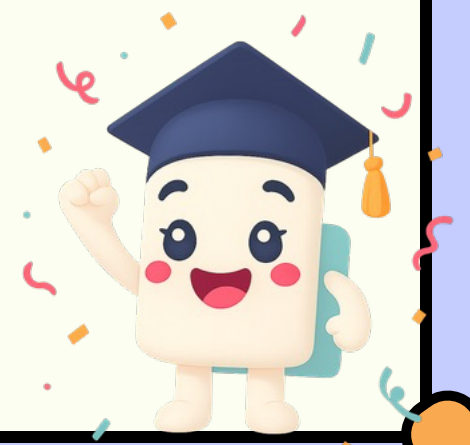
Short answer: $6 + \underline{\quad} = 10$



Answer 3

PREVIEW

4



Question 4

Which pair makes 10?

A. 2 and 8

B. 2 and 7

C. 4 and 5

D. 1 and 8



Answer 4

A. 2 and 8



Question 5

True or false: $5 + 5 = 10$.



Answer 5

True.



Question 6

Short answer: $1 + \underline{\quad} = 10$



Answer 6

PREVIEW



Question 7

Which number partners with 0 to make 10?

A. 0

B. 5

C. 9

D. 10



Answer 7

D. 10



Question 8

True or false: $8 + 1 = 10$.



Answer 8

False. $8 + 2 = 10$.



Question 9

Short answer: A ten frame has 7 dots. How many more make 10?



Answer d

3 more



Question 10

Which equation is a rainbow fact?

A. $4 + 4 = 10$

B. $4 + 6 = 10$

C. $6 + 5 = 10$

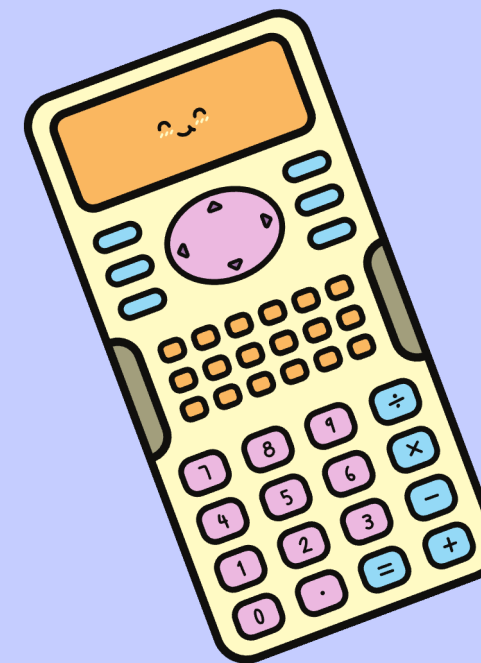
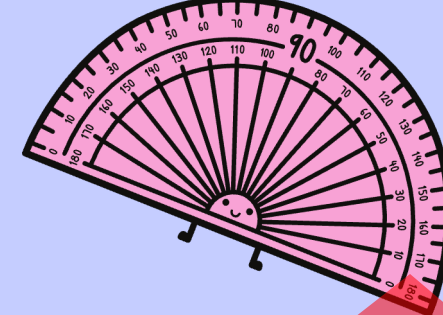
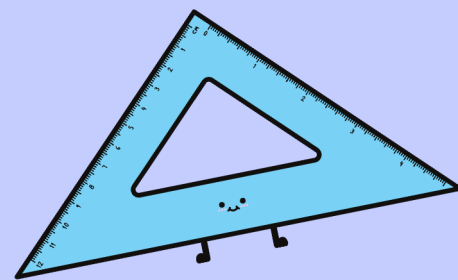
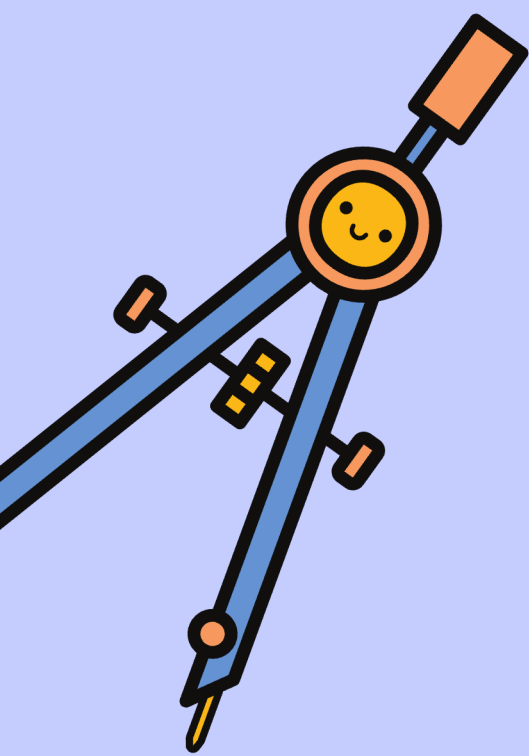
D. $9 + 2 = 10$



Answer 10

B. $4 + 6 = 10$





Well Done!

