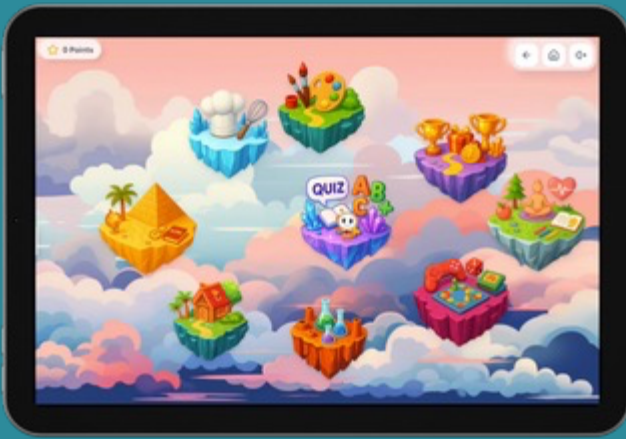


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Modelling Money Problems - Year 1

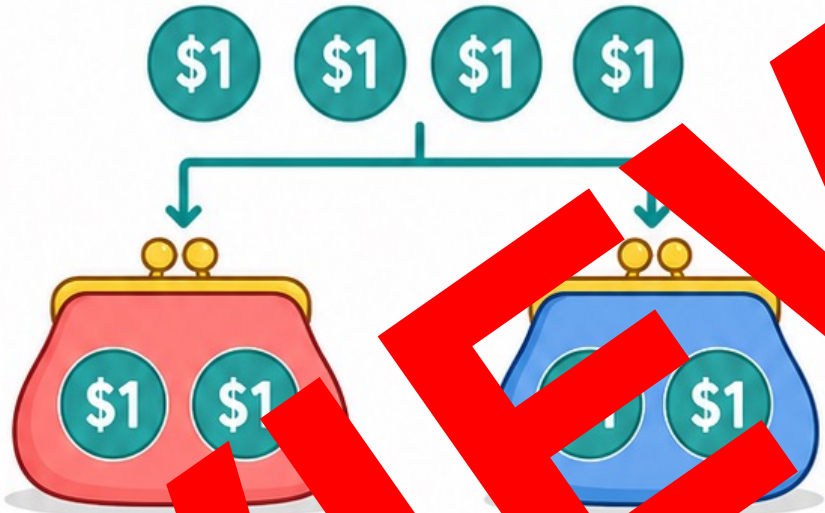
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Money Groups and Fair Shares Display	
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MONEY GROUPS AND FAIR SHARES

SHARE

Split a total
so every share
is equal.



GROUP

Make equal
groups of the
same amount.



CHECK

Count each
share or group.
Equal means
the same.



SHARE OR GROUP?

- 1 **READ** the money story.
- 2 **BUILD** equal shares or groups.
- 3 **DRAW** what you made.
- 4 **CHECK** every group makes.

\$12 shared between 3 = \$4 each



\$15 in groups of \$5 = 3 groups



TOY SHOP FAIR-SHARE MAT

SHOPPERS

TOY SHOP MONEY



SHOPPER 1

SHOPPER 2

★ Deal one token at a time.

★ Do both shoppers have the same amount?

TOY SHOP FAIR-SHARE MAT



SHOPPERS

MONEY



SHOPPER 1

SHOPPER 2

SHOPPER 3

SHOPPER 4



Share equally. Count each basket. Check every match.



COIN CAFE GROUPING SPACE



Roll. Move. Take a total card.
Make equal groups worth
the amount on your space.
Say how many groups
you made.

START

\$2

\$3

\$5

\$2

\$3



\$4

\$5

\$3

\$3

\$4



\$2

\$3

\$4

\$5

\$3

\$2

FINISH

COFFEE TOTAL CARDS

\$6



\$8



\$9



\$10



\$12



\$15



\$16



\$18



\$20



\$20



\$8



\$9



\$10



\$12



\$15



\$16



\$18



\$20



PREVIEW

PLAY-MONEY TOKENS

\$1



\$2



\$5



SHOW THE MONEY: EQUAL GROUPS

SHARE

Share \$8
between 2
shoppers.



SHARE

Share \$12
between 3
shoppers.



SHARE

Share \$16
between 4
shoppers.



GROUP

Make groups
of \$2 from \$10.



GROUP

Make groups
of \$3 from \$12.



GROUP

Make groups
of \$5 from \$15.



SHOW THE MONEY: EQUAL GROUPS

SHARE

Share \$10
between 2
friends.



SHARE

Share \$15
between 3
friends.



SHARE

Share \$20
between 4
friends.



GROUP

Make groups
of \$2 from \$16.



GROUP

Make groups
of \$4 from \$20.



GROUP

Make groups
of \$5 from \$20.





MONEY GROUPS THINK BOARD

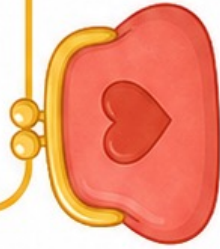


READ IT

BUILD IT

DRAW IT

CHECK IT



I made ____ equal groups. Each group has ____.



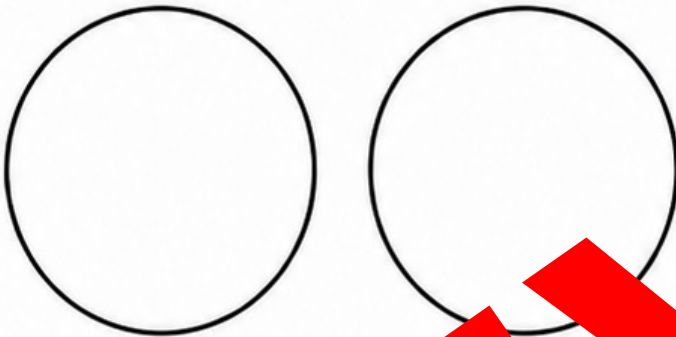
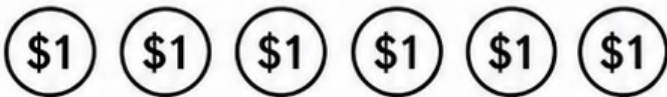
FAIR SHARES WITH \$1 COINS



Name: _____

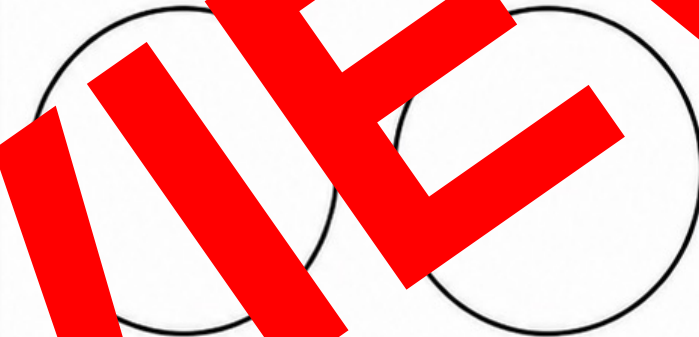
Draw equal shares. Write how much is in each share.

1. Share \$6 between 2.



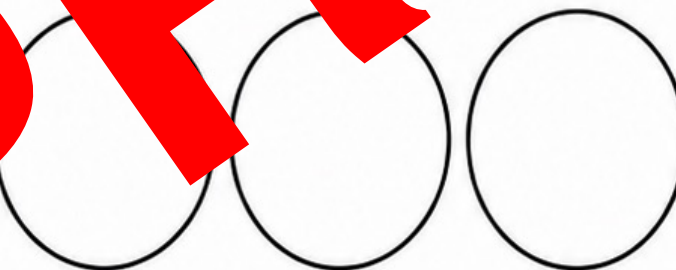
\$ _____ each

2. Share \$8 between 2.



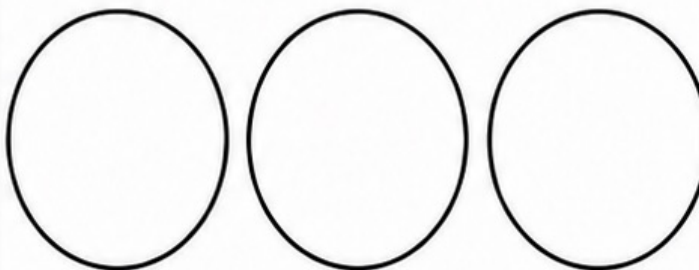
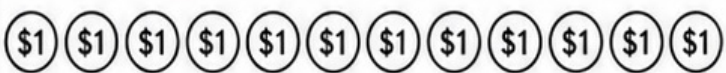
\$ _____ each

3. Share \$5 between 3.



\$ _____ each

4. Share \$12 between 3.



\$ _____ each





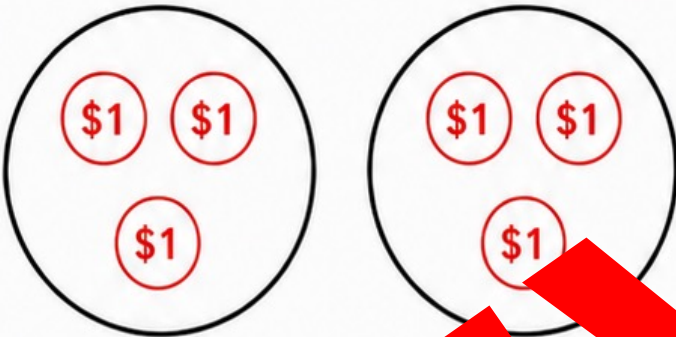
FAIR SHARES WITH \$1 COINS



Name: ANSWERS

Draw equal shares. Write how much is in each share.

1. Share \$6 between 2.



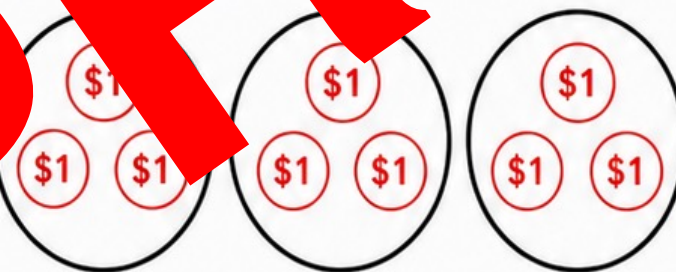
\$ 3 each

2. Share \$8 between 2.



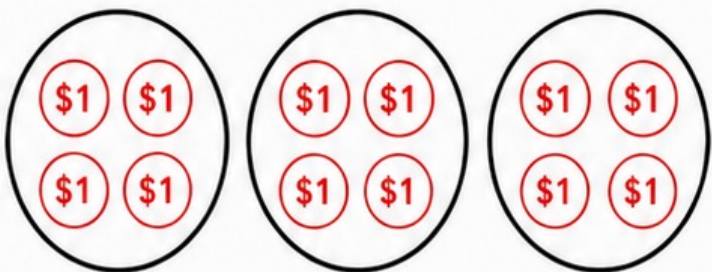
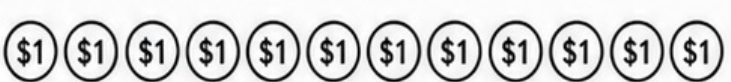
\$ 4 each

3. Share \$9 between 3.



\$ 3 each

4. Share \$12 between 3.



\$ 4 each





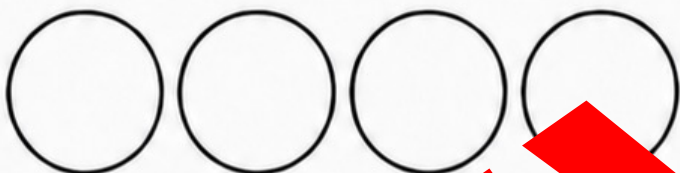
FAIR SHARES WITH \$1 COINS



Name: _____

Draw the equal shares, then write how much is in each share.

1. Share \$12 between 4.



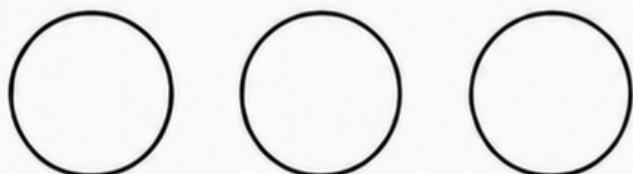
\$ ____ each

2. Share \$16 between 4.



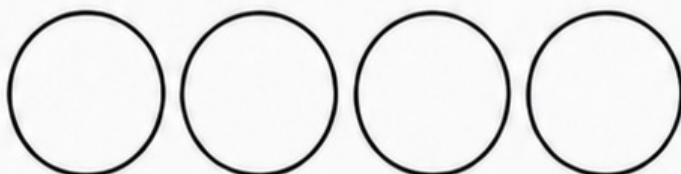
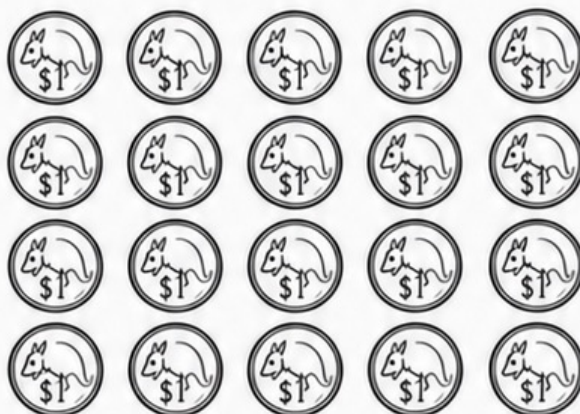
\$ ____ each

3. Share \$15 between 3.



\$ ____ each

4. Share \$20 between 4.



\$ ____ each





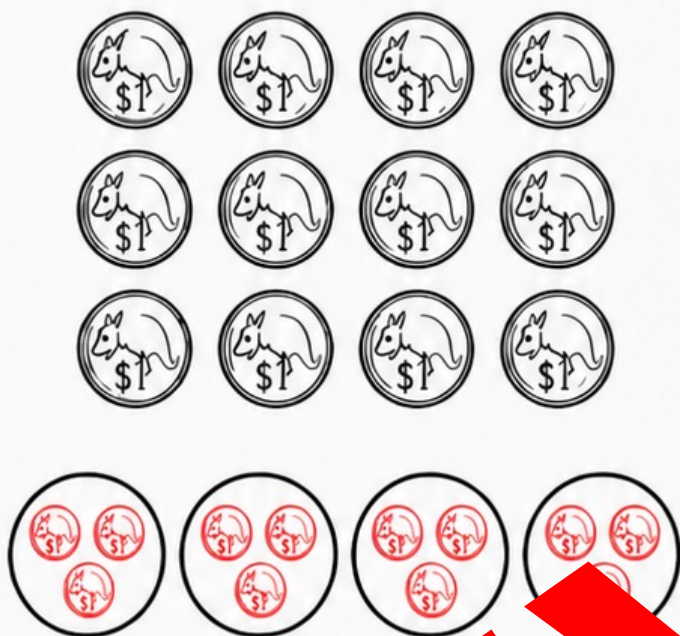
FAIR SHARES WITH \$1 COINS



Name: _____ **ANSWERS**

Draw the equal shares, then write how much is in each share.

1. Share \$12 between 4.



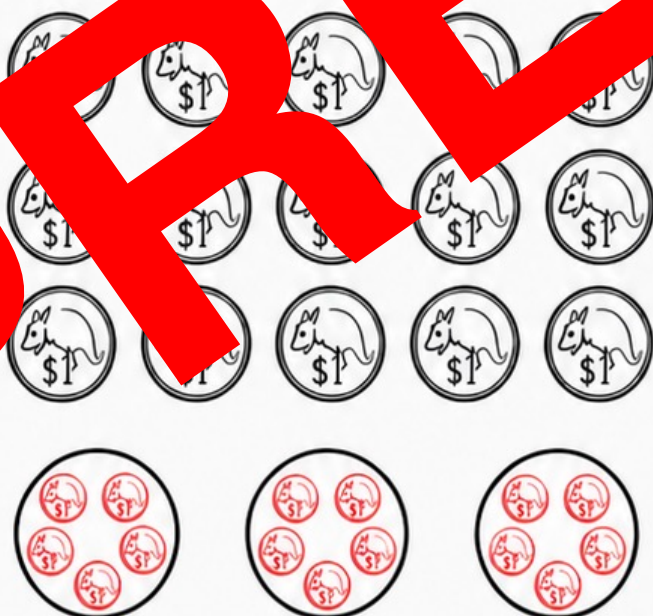
\$ 3 each

2. Share \$16 between 4.



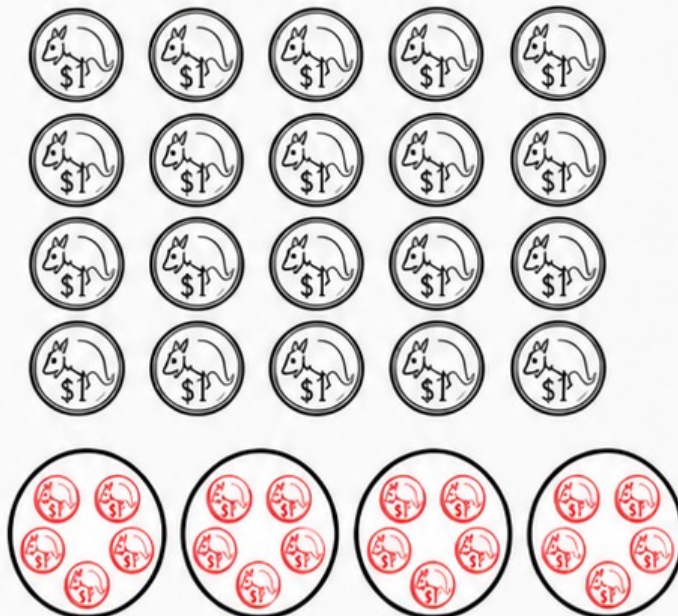
\$ 4 each

3. Share \$15 between 3.



\$ 5 each

4. Share \$20 between 4.



\$ 5 each





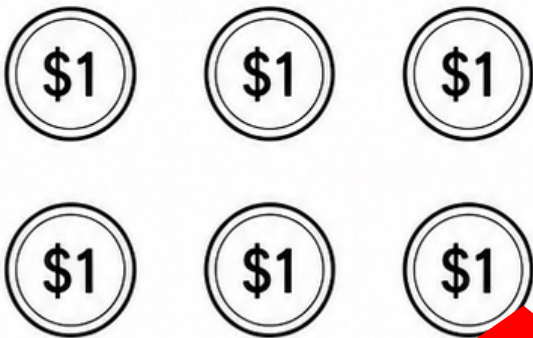
MAKE MONEY GROUPS



Name: _____

Circle equal groups. Write how many groups you made.

1. Make groups of \$2 from \$6.



____ groups

2. Make groups of \$2 from \$10.



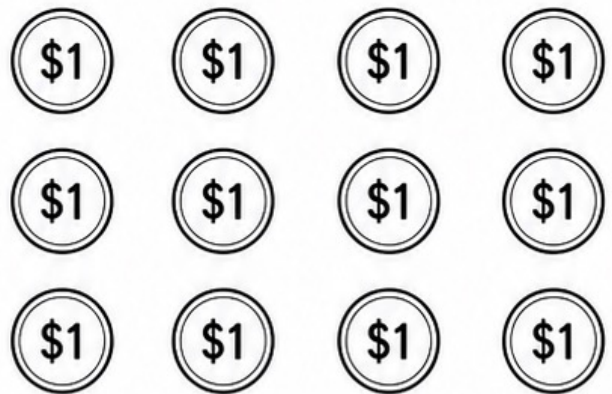
____ groups

3. Make groups of \$3 from \$9.



____ groups

4. Make groups of \$4 from \$12.



____ groups





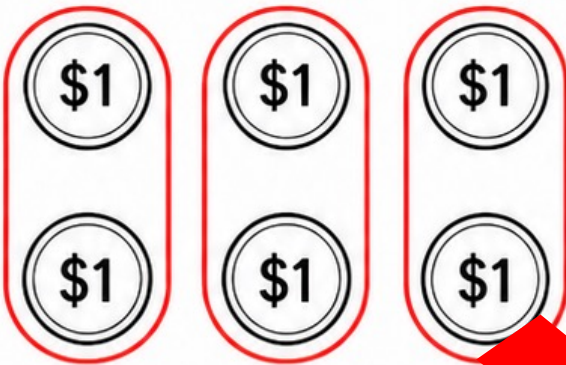
MAKE MONEY GROUPS



Name: _____ **ANSWERS**

Circle equal groups. Write how many groups you made.

1. Make groups of \$2 from \$6.



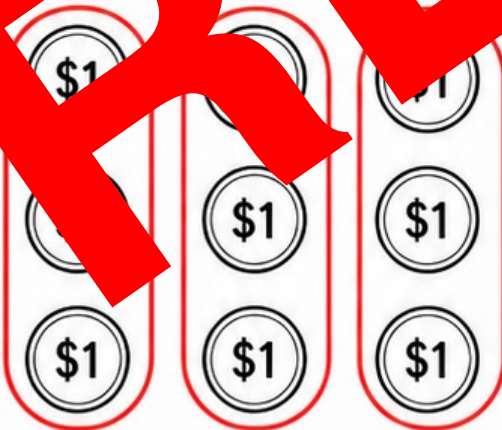
3 groups

2. Make groups of \$2 from \$10.



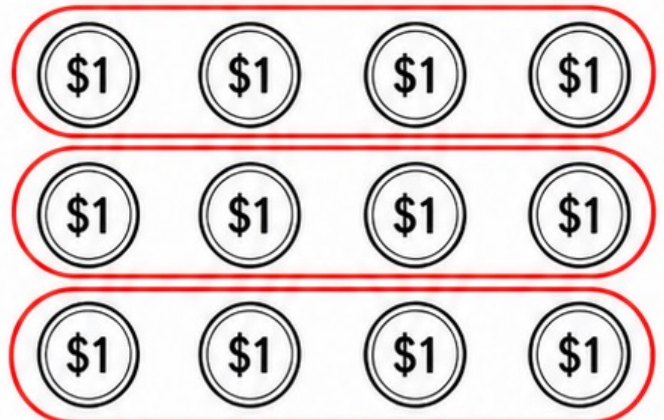
5 groups

3. Make groups of \$3 from \$9.



3 groups

4. Make groups of \$4 from \$12.



3 groups





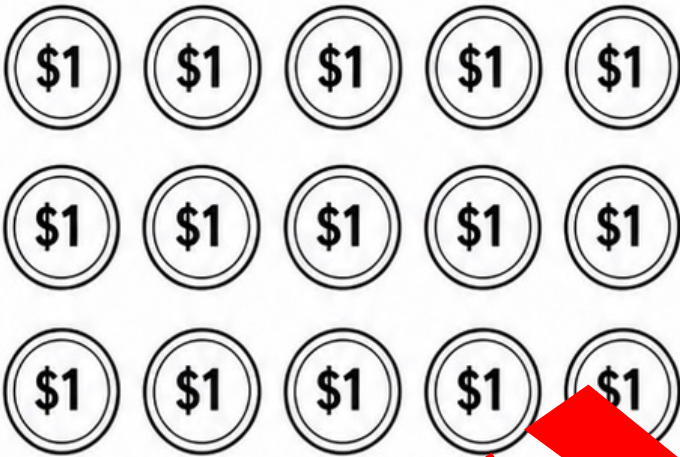
MAKE MONEY GROUPS



Name: _____

Circle each equal group. Write the number of groups.

1. Make groups of \$3 from \$15.



_____ groups

2. Make groups of \$4 from



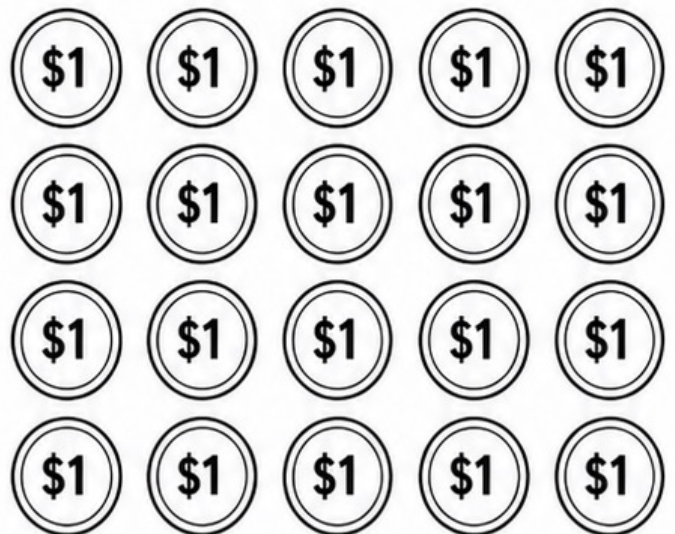
_____ groups

3. Make groups of \$3 from \$15.



_____ groups

4. Make groups of \$5 from \$20.



_____ groups





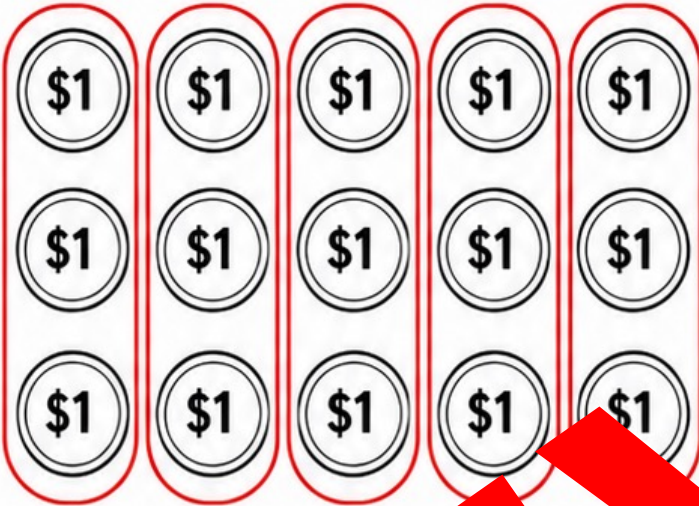
MAKE MONEY GROUPS



Name: **ANSWERS**

Circle each equal group. Write the number of groups.

1. Make groups of \$3 from \$15.



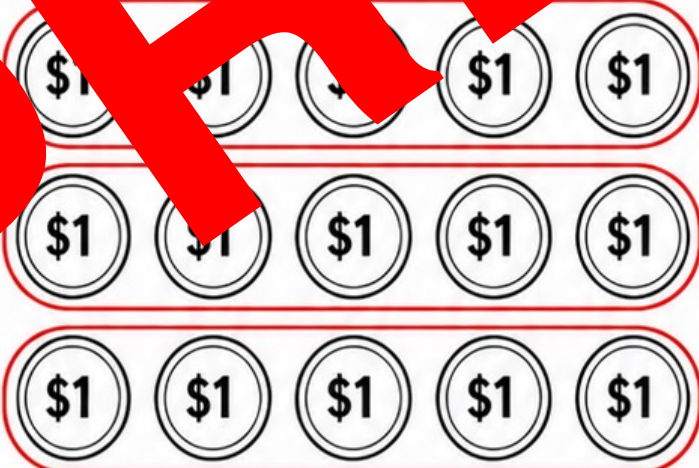
5 groups

2. Make groups of \$4 from \$16.



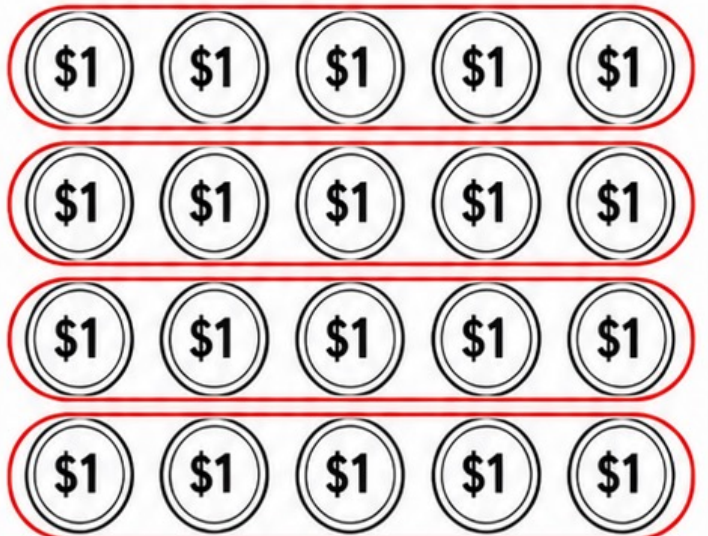
4 groups

3. Make groups of \$2 from \$10.



3 groups

4. Make groups of \$5 from \$20.



4 groups



SHOPPER SHARE STORIES

Name: _____

Draw a model. Share the money equally. Write your answer.

1. Two shoppers share \$10 equally.
How much does each shopper get?



My model

\$____ in each share

2. Three market helpers share \$12 equally.
How much does each helper get?



My model

\$____ in each share

3. Four friends share \$20 equally.
How much does each friend get?



My model

\$____ in each share

4. Three friends share \$18 equally.
How much does each friend get?



My model

\$____ in each share

SHOPPER SHARE STORIES

Name: ANSWERS

Draw a model. Share the money equally. Write your answer.

1. Two shoppers share \$10 equally.
How much does each shopper get?



My model



\$ 5 in each share

2. Three market helpers share \$12 equally.
How much does each helper get?



My model

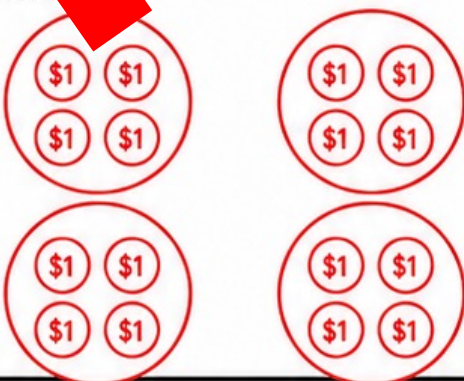


\$ 4 in each share

3. Four friends share \$16 equally.
How much does each friend get?



My model



\$ 4 in each share

4. Three friends share \$18 equally.
How much does each friend get?



My model



\$ 6 in each share

GROUP IT AT THE TOY SHOP

Name: _____

Make equal money groups. Draw or circle your model.

1. Put \$12 into purses of \$3. How many purses can you fill?



My model

___ equal groups

2. Put \$16 into bags of \$4. How many bags can you fill?



My model

___ equal groups

3. Make \$5 prize packs from \$10. How many prize packs can you make?



My model

___ equal groups

4. Make \$5 game packs from \$20. How many packs can you make?



My model

___ equal groups

GROUP IT AT THE TOY SHOP

Name: **ANSWERS**

Make equal money groups. Draw or circle your model.

1. Put \$12 into purses of \$3. How many purses can you fill?



My model



4 equal groups

2. Put \$16 into bags of \$4. How many bags can you fill?



My model



4 equal groups

3. Make \$5 game packs from \$10. How many packs can you make?



My model

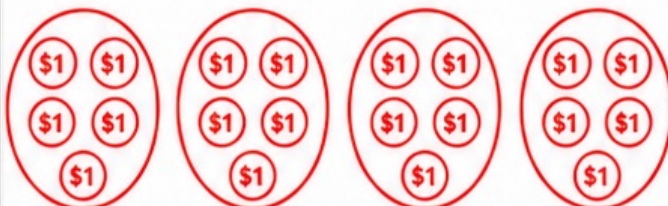


5 equal groups

4. Make \$5 game packs from \$20. How many packs can you make?



My model



4 equal groups

READ, MODEL, DRAW, SOLVE

Name: _____

Use each Think Board to show your thinking.

- 1** The class has \$12. Share it equally between 3 stalls. How much does each stall get?



READ

MODEL

DRAW

SOLVE

\$ ____ each

- 2** Put \$15 into equal bags of \$5. How many bags can you make?



READ

MODEL

DRAW

SOLVE

____ bags

READ, MODEL, DRAW, SOLVE

Name: **ANSWERS**

Use each Think Board to show your thinking.

- 1** The class has \$12. Share it equally between 3 stalls. How much does each stall get?



READ

12 shared by 3

MODEL



DRAW

$$4 + 4 + 4 = 12$$

SOLVE

\$ 4 each

- 2** Ravi has \$15. He wants to make equal bags of \$5. How many bags can he make?



READ

15 grouped in 5s

MODEL



DRAW

$$\$5 + \$5 + \$5 = \$15$$

SOLVE

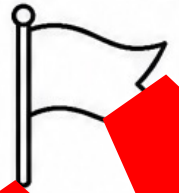
3 bags

READ, MODEL, DRAW, SOLVE

Name: _____

Use each Think Board to show your thinking.

1. Share \$20 equally among 4 teams.
How much does each team get?



READ

MODEL

DRAW

SOLVE

_____ each

2. Make equal groups of \$4 from \$16.
How many groups can you make?



READ

MODEL

DRAW

SOLVE

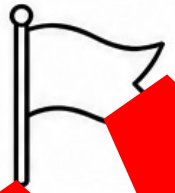
_____ groups

READ, MODEL, DRAW, SOLVE

Name: ANSWERS

Use each Think Board to show your thinking.

1. Share \$20 equally among 4 teams.
How much does each team get?



READ

20 shared by 4

MODEL



DRAW

$5 + 5 + 5 + 5 = 20$

SOLVE

5 each

2. Make equal groups of \$4 from \$16.
How many groups can you make?



READ

16 grouped in 4s

MODEL



DRAW

$4 + 4 + 4 + 4 = 16$

SOLVE

4 groups



SCHOOL FAIR MONEY CHALLENGE

Name: _____

Assessment - Page 1

Show a drawing or token model. Write your answer.



1. Share \$12 equally between 3 stalls.
How much does each stall get?

My model

\$ _____ each

2. Share \$16 equally between 4 stalls.
How much does each stall get?

My model

\$ _____ each

3. Make groups of \$2 from \$20.
How many groups can you make?

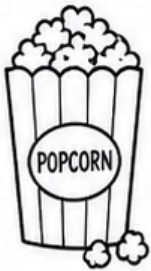
My model

_____ groups

4. Make groups of \$5 from \$20.
How many groups can you make?

My model

_____ groups



SCHOOL FAIR MONEY CHALLENGE

Name: **ANSWERS**

Assessment - Page 1

Show a drawing or token model. Write your answer.

1. Share \$12 equally between 3 stalls. How much does each stall get?

My model



\$ 4

2. Share \$16 equally between 4 stalls. How much does each stall get?

My model



\$ 4 each

3. Make groups of \$3 from \$12. How many groups can you make?

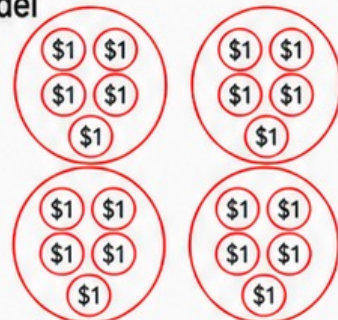
My model



4 groups

4. Make groups of \$5 from \$20. How many groups can you make?

My model



4 groups

SCHOOL FAIR MONEY CHALLENGE

Name: _____

Assessment - Page 2

Show your thinking. Explain your answer.

1. Three equal cash boxes hold \$4 each.
What is the combined total?



\$4 each

\$4 each

\$4 each

My thinking

\$ _____ altogether

2. Share \$18 equally among 3 helpers. How much money does each helper get?
Explain how you checked.

My model

\$ _____ each

I checked by:

3. Four bags hold \$3, \$3, \$3 and \$4. Are these equal groups?
Explain why.



☐ Yes

☐ No

Why:

SELF-CHECK

- ☐ I made equal groups.
- ☐ I counted carefully.
- ☐ I explained my answer.

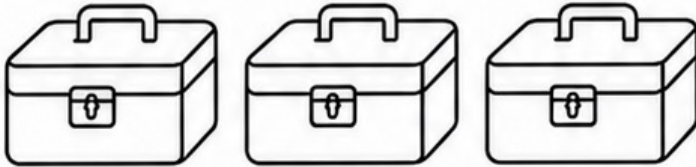
SCHOOL FAIR MONEY CHALLENGE

Name: **ANSWERS**

Assessment - Page 2

Show your thinking. Explain your answer.

1. Three equal cash boxes hold \$4 each.
What is the combined total?



\$4 each

\$4 each

\$4 each

My thinking

$$\$4 + \$4 + \$4 = \$12$$

\$12 altogether

2. Share \$18 equally among 3 helpers. How much money does each helper get?
Explain how you checked.

My model



\$6 each

I checked by:

$$6 + 6 + 6 = 18$$

3. Four bags hold \$3, \$3, \$3 and \$4. Are these equal groups?
Explain why.



☐ Yes

☒ No

Why:

No. One bag has \$4;
the others have \$3.

SELF-CHECK

- ☒ I made equal groups.
- ☒ I counted carefully.
- ☒ I explained my answer.

MODELLING MONEY PROBLEMS RUBRIC

Student: _____

Date: _____

CRITERIA	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Builds equal shares or groups	Needs help to make groups.	Makes some equal groups.	Makes equal shares and groups.	Chooses a useful sharing or grouping model.	Solves new sharing and grouping problems.
Uses diagrams or materials	Needs help to show ideas.	Shows part of the model.	Uses a clear model.	Shows clear model steps.	Connects models and number ideas.
Counts and records accurately	Counts with support.	Counts most items correctly.	Counts and records accurately.	Records all steps accurately.	Records and justifies accurately.
Checks and explains the result	Needs help to check.	Checks with a prompt.	Checks and gives a reason.	Explains how the check works.	Explains and compares strategies.

Modelling Money Problems



Learning Goal

We are learning to solve money problems
with fair shares and equal groups.



Success Criteria

I can make equal sized groups.

I can draw what I made.

I can count carefully.

I can explain and check my answer.



Share or Group?

SHARE: split into equal groups.

GROUP: make equal groups of a fixed amount.



Read • Build • Draw • Check

READ the money story.

BUILD with tokens.

DRAW the groups.

CHECK that equal groups match.



Fair-Share Story

The class has \$12.

Share it equally between market helpers.

How much does each helper get?



Build the Fair Share

Start with twelve \$1 tokens.

Deal one token to each helper in turn.

Keep giving until all \$12 is shared.



Draw and Check

Helper 1: \$4 Helper 2: \$4 Helper 3: \$4

All three should match.

Answer: \$4 each.



Grouping Story

Put \$10 into bags of \$5.

How many bags can you make?



Build the Groups

Count: \$5, \$10, \$15.

That makes 3 bags.

Answer: 3 bags.



Find the Combined Total

Four pupils have \$3 each.

$$\$3 + \$3 + \$3 + \$3 = \$12$$

There is \$12 altogether.



Helpful Language Clues

share language • each

groups of • together

The teacher tells you what to model.



Equal Means the Same

Compare every share or group.

If one amount is different,

the groups are not equal.



Guided Think Record

Share \$16 equally between 4 class stalls.

Build it. Draw. Check it.

How much does each stall get?



Think Board | Answer

\$4 each stall.

$$\$4 + \$4 + \$4 + \$4 = \$16$$

equal shares match.



Guided Think Board

Make groups of 2 from 10.

Build it. Draw. Check it.

How many groups can you make?



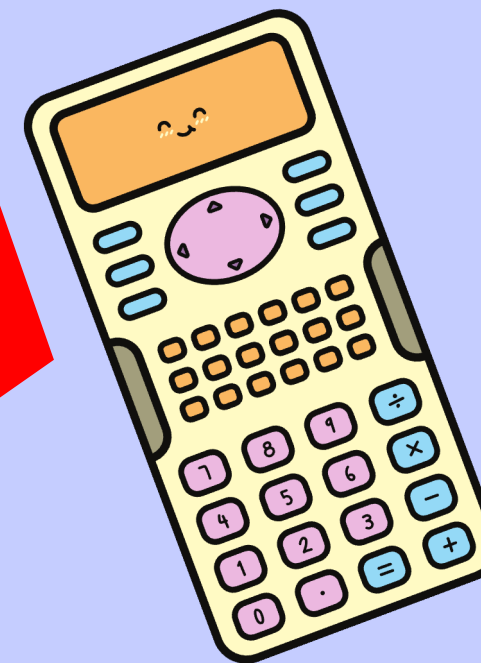
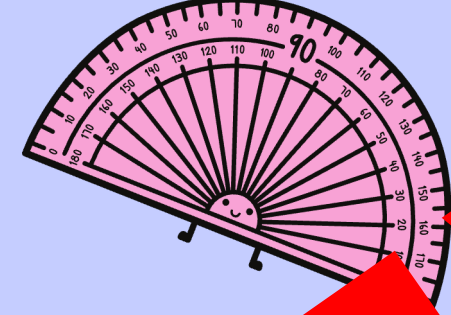
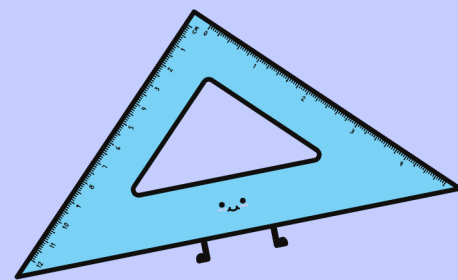
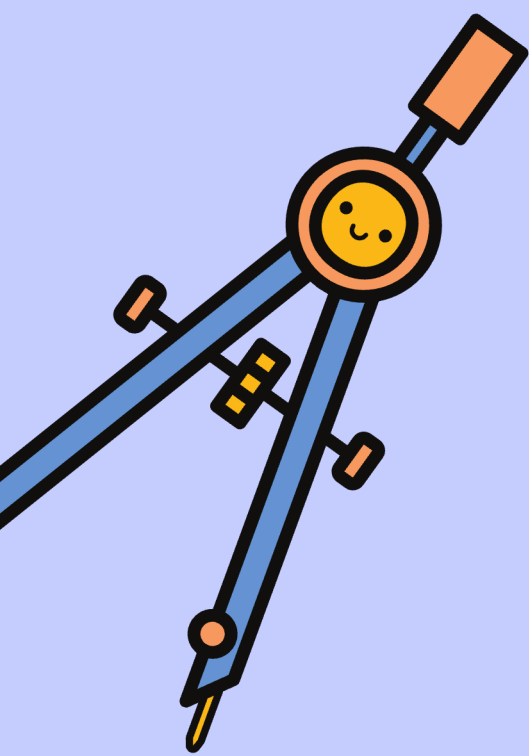
Think Board 2 Answer

5 equal groups.

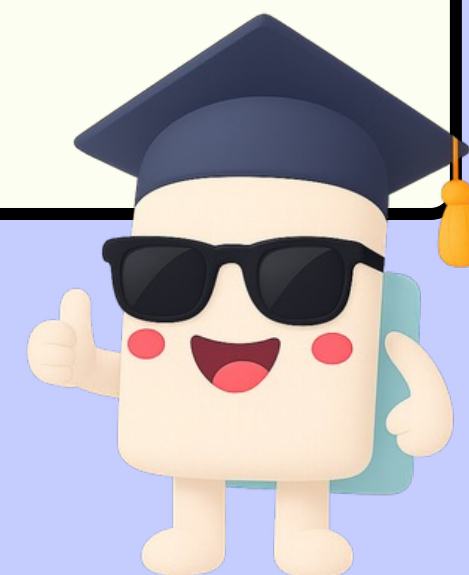
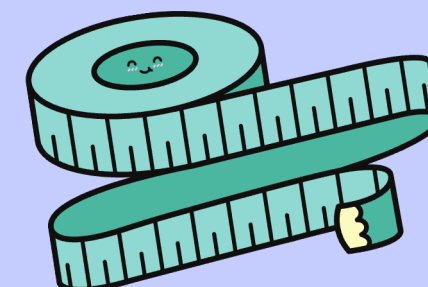
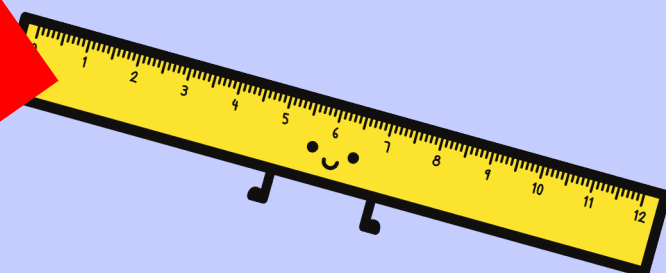
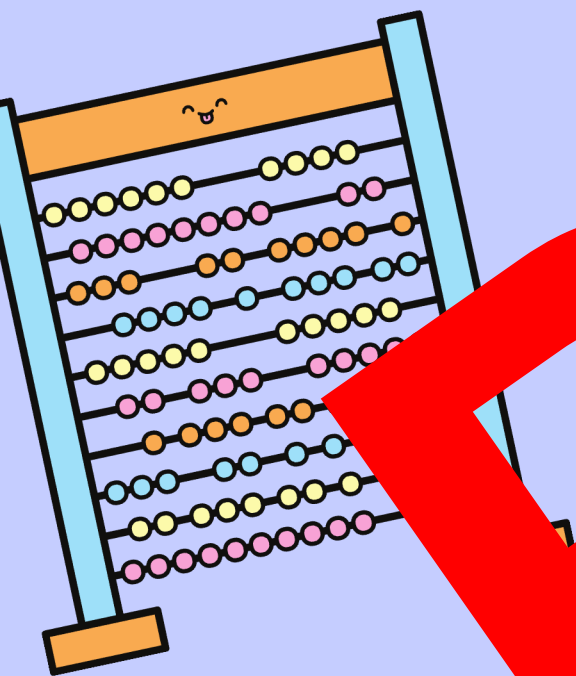
$$\$2 + \$2 + \$2 + \$2 + \$2 = \$10$$

Tells how many groups.





Well Done!



Modelling Money Problems Quiz



Question 1

\$12 is shared equally among 4 children.

How much does each child get?

A \$3 B \$4 C \$6 D \$12



Answer 1

Each share costs
 $\$4 + \$4 + \$4 = \12

Three shares are equal.



Question 2

True or false?

Four purses have \$3 each.

There is \$12 altogether.



Answer ?

QUESTION

$$\$3 + \$3 + \$3 + \$3 = \$12$$



Question 3

Put \$10 into small bags of \$5.

How many bags can you make?



Answer 2

3 bags
\$5 + \$5 + \$5 = \$15



Question 11

Which words usually signal to sharing?

A spent B shared equally

C cost D left



Answer II

— should equally.

Every share must contain the same amount.



Question 5

True or false?

\$10 shared equally between 2 children
gives \$6 each.



Answer 5

1. SE
\$10 are between 2 gives \$5 each.



Question 2

There are 3 equal groups of \$4.
What is the combined total?



Answer c

$$2. \\ \$4 + \$4 = \$12$$



Question 7

\$16 is arranged in groups of \$4.

How many groups are made?

A 2 B 3 C 4 D 8



Answer 3

4 \$4

$$\$4 + \$4 + \$4 + \$4 = \$16$$



Question 3

\$18 is shared equally among 3 stalls.

How much does each stall get?



Answer 8

\$6 at each stall.

$$3 \times \$6 + \$6 = \$18$$



Question 1

True or false?

Equal groups may contain different amounts.



Answer a

These
question groups must match.



Question 10

What is the best first step after reading a book or story?

Guess

Build or draw a visual shares

Click the biggest number

Change the total

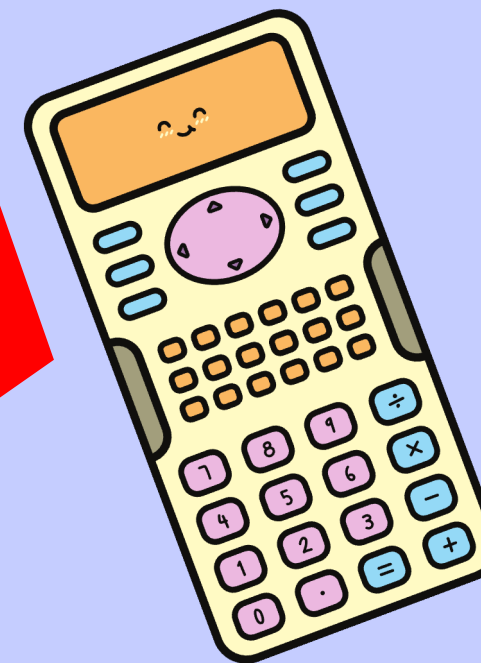
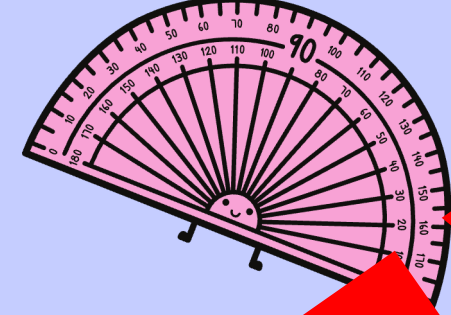
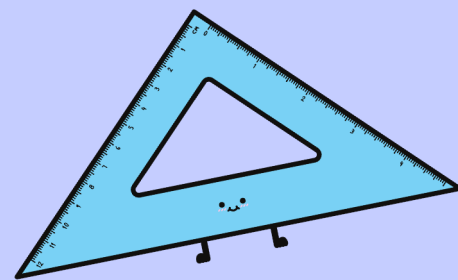
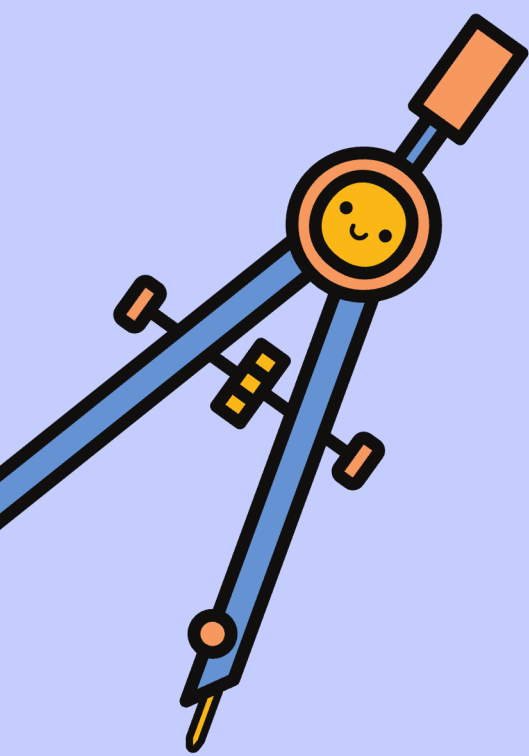


Answer is

B — built for drawing the equal shares.

Then check that every share matches.





Well Done!

