Name & Surname: _____ Class: _____ Date: _____

# Divide It Up!

Sharing and grouping to find quotients

About 45 minutes Level ★★★☆☆

## Two Ways to Divide

Division splits a total into **equal** parts. The **quotient** tells how many or how much.

- **Equal sharing**: You know the number of shares. 12 ÷ 3 means 12 objects into 3 shares, so 4 in each share.
- **Equal grouping**: You know the size of each group. 12 ÷ 3 can also mean 12 objects in groups of 3, so 4 groups.
- Check with **multiplication**: 4 × 3 = 12, so 12 ÷ 3 = 4.




## Task A

/2

**Follow the steps to show sharing and grouping.**

WORKED EXAMPLE

Work out 20 ÷ 4 by equal sharing

1. Draw 4 circles for 4 shares
2. Share 20 dots one by one into the circles
3. Each circle has 5 dots, so 20 ÷ 4 = 5

**Answer:** 5

YOUR TURN

Work out 12 ÷ 4 by equal sharing

**Answer:** _____

WORKED EXAMPLE

Work out 20 ÷ 4 by equal grouping

1. Make groups of 4 objects from 20 objects
2. Count the groups: 1, 2, 3, 4, 5
3. There are 5 groups, so 20 ÷ 4 = 5

**Answer:** 5

YOUR TURN

Work out 18 ÷ 3 by making groups of 3

**Answer:** _____

## Key Words

**quotient:** the answer to a division problem

**divisor:** the number you divide by

**equal grouping:** making groups of a known size

**dividend:** the total number being divided

**equal sharing:** splitting into a known number of shares



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# Practice Equal Shares

Practice sharing and grouping with small numbers.

## Task B

/10

Use **sharing** or **grouping** to find each quotient.

### WARM UP

**1** Work out 12 ÷ 3. Think of 12 objects in 3 **equal shares**.

Answer: _____

**2** Work out 20 ÷ 5. Think of 20 objects in groups of 5 **objects**.

Answer: _____

**3** Work out 14 ÷ 2. Think of 14 objects in 2 **equal shares**.

Answer: _____

### PRACTISE

**4** Find the **quotient**: 28 ÷ 4 = ?

Answer: _____

**5** Find the **quotient**: 30 ÷ 5 = ?

Answer: _____

**6** 24 crayons are put into groups of 6 **crayons**. How many **groups**? Write it as 24 ÷ 6.

Answer: _____

**7** 24 crayons are shared into 4 **equal shares**. How many in each **share**? Write it as 24 ÷ 4.

Answer: _____

### PROBLEM SOLVING

**8** The teacher has 18 pencils. She puts 6 pencils on each **table**. How many tables does she use? Write the **division**.

Answer: _____

**9** Three friends share 21 stickers **equally**. How many stickers does each **friend** get?

Answer: _____

**10** Describe a story where 30 ÷ 5 shows the number of **groups**. Explain how you **know**.

Answer: _____



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# Divide Larger Numbers

Use division within 100, including 56 ÷ 8.

## Task C

/10

**Find each quotient and tell what it means.**

### WARM UP

**1** Work out 40 ÷ 8. Think of 40 in 8 **equal shares**.

Answer: _____

**2** Work out 36 ÷ 9. Think of 36 in groups of 9 **objects**.

Answer: _____

**3** Work out 45 ÷ 5. Think of 45 in 5 **equal shares**.

Answer: _____

### PRACTISE

**4** Find the **quotient**: 56 ÷ 8 = ?

Answer: _____

**5** Find the **quotient**: 72 ÷ 8 = ?

Answer: _____

**6** Find the **quotient**: 63 ÷ 7 = ?

Answer: _____

**7** Find the missing **number**: ? × 8 = 56

Answer: _____

### PROBLEM SOLVING

**8** 56 buttons are shared **equally** into 8 boxes. How many buttons are in each **box**?

Answer: _____

**9** 56 buttons are packed 8 to a **bag**. How many **bags** are needed?

Answer: _____

**10** Write a context for 56 ÷ 8 that tells the number in each **share**. Explain what the 7 **means**.

Answer: _____



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# Who Is Right?

Spot the correct idea about 56 ÷ 8.

## Task D

/3

**Read each idea and decide who is right.**



Student A

What does **56 ÷ 8** mean? Can it mean sharing and grouping?

Both are 56 ÷ 8. 56 objects into 8 **equal shares** is 7 in each share, and 56 objects in **groups** of 8 is 7 groups.



Student B

56 ÷ 8 is the same as 8 ÷ 56, so you share 8 **objects** into 56 shares.



Student C

56 ÷ 8 means 56 groups of 8, so it is 56 × 8 = 448.



Student D

**What do you think of each idea? Why?**

**Student B:**

**Student C:**

**Student D:**



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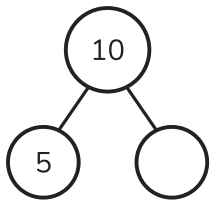
# Bonds and values

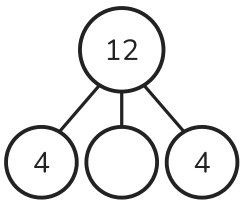
Connect division to bonds and place value.

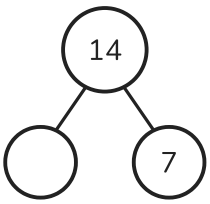
## Task E

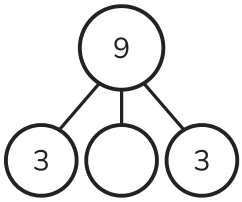
/4

**Find the missing part. Each bond shows equal groups.**

1. 


2. 


3. 


4. 


## Task F

/3

**Partition each total into tens and ones.**

1. **56 =** _____
2. **84 =** _____
3. **72 =** _____

## How did I do?

Circle a face for each line.

| | | | |
|---|---|---|---|
| I can explain 56 ÷ 8 as equal sharing and as equal grouping. | ☹ | 😐 | ☺ |
| I can solve division problems within 100. | ☹ | 😐 | ☺ |
| I can check division with multiplication. | ☹ | 😐 | ☺ |



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# Answer sheet: Divide It Up!

**Task A**

1. 3
2. 6

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**Task B**

1. 4
2. 4
3. 7
4. 7
5. 6
6. 4
7. 6
8. 3
9. 7
10. 30 pencils packed 5 to a box makes 6 boxes, so 30 ÷ 5 is the number of boxes.

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**Task C**

1. 5
2. 4
3. 9
4. 7
5. 9
6. 9
7. 7
8. 7
9. 7
10. 56 objects shared into 8 equal shares gives 7 objects in each share, so 7 is the size of each share.

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**Task D**

Student B: right

Student C: not right

Student D: not right

Student B is right. 56 ÷ 8 = 7 can mean 7 objects in each of 8 shares or 7 groups of 8. Student C swaps the dividend and divisor. Student D uses multiplication instead of division.

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**Task E**

1. 5 (10 = 5 + 5)
2. 4 (12 = 4 + 4 + 4)
3. 7 (14 = 7 + 7)
4. 3 (9 = 3 + 3 + 3)

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**Task F**

1. 56 = 50 + 6
2. 84 = 80 + 4
3. 72 = 70 + 2

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