Grade 3 Unit 1 worksheet: What division means (answer key)

ANSWERS AT A GLANCE

1. (a) 12 ÷ 3 = 4 (b) 20 ÷ 4 = 5 (c) 18 ÷ 2 = 9 (d) 30 ÷ 5 = 6 (e) 21 ÷ 7 = 3 (f) 80 ÷ 10 = 8
2. 5 cups; 20 ÷ 4 = 5
3. 6 treats
4. 5 days
5. 4 cookies

WORKED SOLUTIONS

1. Divide.

(a) 12 ÷ 3 = _____ (b) 20 ÷ 4 = _____ (c) 18 ÷ 2 = _____

(d) 30 ÷ 5 = _____ (e) 21 ÷ 7 = _____ (f) 80 ÷ 10 = _____

ANSWER

(a) 12 ÷ 3 = 4 (b) 20 ÷ 4 = 5 (c) 18 ÷ 2 = 9 (d) 30 ÷ 5 = 6 (e) 21 ÷ 7 = 3 (f) 80 ÷ 10 = 8

SOLUTION

Find the missing factor each time.

(a) 3 × 4 = 12 (b) 4 × 5 = 20 (c) 2 × 9 = 18 (d) 5 × 6 = 30 (e) 7 × 3 = 21 (f) 10 × 8 = 80

2. Mia puts 4 grapes in each cup. How many cups does she fill?  Write a division.

ANSWER

5 cups; 20 ÷ 4 = 5

SOLUTION

There are 20 grapes in all. Each cup holds 4, so this is grouping. There are 5 cups.

20 ÷ 4 = 5. Check: 5 × 4 = 20.

3. Ava has 18 dog treats. She shares them equally among her 3 dogs. How many treats does each dog get?

ANSWER

6 treats

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SOLUTION

This is sharing. There are 3 groups, one for each dog.

$3 \times \square = 18$. Since $3 \times 6 = 18$, each dog gets 6 treats.

So $18 \div 3 = 6$.

4. Hannah has 15 crackers. She eats 3 crackers each day. Use repeated subtraction to find how many days they last.

ANSWER

5 days

SOLUTION

Each day takes away 3 crackers:

$15 - 3 = 12$, $12 - 3 = 9$, $9 - 3 = 6$, $6 - 3 = 3$, $3 - 3 = 0$

That is 5 subtractions, so the crackers last 5 days. $15 \div 3 = 5$.

5. Mason has 2 bags of cookies. Each bag has 10 cookies. He shares all the cookies equally among 5 friends. How many cookies does each friend get?

ANSWER

4 cookies

SOLUTION

First find all the cookies: $2 \times 10 = 20$ cookies.

Then share them among 5 friends: $5 \times \square = 20$. Since $5 \times 4 = 20$, each friend gets 4 cookies.

So $20 \div 5 = 4$.

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