Worksheet - Multiplication and division: groups, doubling and sharing

Year: Year 1 · 20

Show your working.

Question 1

Question 1 – Count the groups *(Section A · Practice)*

Count the groups. Write the numbers.

a. 

b. 

c. 

Question 2

Question 2 – Add the groups *(Section A · Practice)*

Write an addition for each picture. Then write the total.

a. 

b. 

c. 

Question 3

Question 3 – Doubles *(Section A · Practice)*

Double each number.

a. Double 3
b. Double 5
c. Double 7
d. Double 8
e. Double 10

Question 4

Question 4 – Halves *(Section A · Practice)*

Find half of each number. Think of sharing between 2.

a. Half of 6
b. Half of 10
c. Half of 14
d. Half of 16
e. Half of 20

Question 5

Question 5 – Count in steps *(Section A · Practice)*

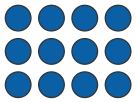
Write the missing numbers.

a. 2, 4, 6, __, 10, __
b. 5, 10, __, 20, 25, __
c. 10, 20, __, 40, __, 60
d. Count in 2s from 10: 10, 12, __, 16
e. Count in 5s backwards: 30, 25, __, 15

Question 6

Question 6 – Draw an array *(Section A · Practice)*

Look at the array. Answer the questions.



a. How many rows are there?
b. How many dots are in each row?
c. Count in 4s. How many dots are there in all?
d. Turn the page on its side. There are 4 rows of 3. How many dots?

Question 7

Question 7 – Share fairly *(Section A · Practice)*

Share the dots equally between the plates. Write how many go on each plate.

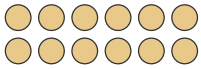
a. 6 dots shared between 2 plates
b. 8 dots shared between 4 plates
c. 10 dots shared between 5 plates
d. 15 dots shared between 3 plates

Question 8

Question 8 – Eggs on the farm *(Section B · Real-life practice)*

Farmer Jo packs eggs in boxes. Each box holds 6 eggs. This morning she fills 2 boxes.

This afternoon she fills 1 more box.



a. How many eggs are in the 2 boxes? Add 6 + 6.
b. How many eggs are in all 3 boxes? Count in 6s.
c. She gives half of the eggs from the first two boxes to a neighbour. How many is that?
d. How many eggs does she keep from the first two boxes?

Question 9

Question 9 – Fingers and toes *(Section B · Real-life practice)*

In a class of 5 children, everyone holds up both hands. Each hand has 5 fingers. Then they all take off their shoes. Each child has 2 feet and each foot has 5 toes.



a. How many hands are there? Count in 2s.
b. How many fingers are there? Count in 5s for each hand.
c. How many feet are there?
d. How many toes are there on the 5 children?

Question 10

Question 10 – Party sweets *(Section B · Real-life practice)*

Leah has 12 sweets. She wants to share them fairly. First she shares them with 1 friend, so there are 2 children. Then she shares them between 3 children, and then 4 children.



a. How many sweets does each child get when 2 children share?
b. How many does each child get when 3 share?
c. How many does each child get when 4 share?
d. What do you notice as more children share?

Question 11

Question 11 – Football teams *(Section B · Real-life practice)*

A PE teacher has 20 children. She wants to make teams with the same number in each team. She tries 2 teams, then teams of 5.

a. Share 20 children between 2 teams. How many in each team?
b. Make teams of 5. How many teams can she make? Count in 5s.

c. Which gives more teams, teams of 5 or teams of 10?
d. Two teams of 10 play a game. One team scores double the goals of the other. The first team scores 3. How many does the second team score?

Question 12

Question 12 – At the pet shop *(Section B · Real-life practice)*

A pet shop has fish tanks. There are 4 tanks with 5 fish in each tank. Another shelf has 3 cages with 2 hamsters in each cage.



a. How many fish are there?
b. How many hamsters are there?
c. How many animals are there altogether?
d. The shop sells half of the hamsters. How many are sold?

Question 13

Question 13 – Buying sandwiches *(Section B · Real-life practice)*

A café sells sandwiches in packs of 2. Max buys 4 packs for a picnic. His friends buy 6 packs. They share all the sandwiches equally.

a. How many sandwiches does Max buy? Count in 2s.
b. How many sandwiches do his friends buy?
c. How many sandwiches are there in all?
d. Half of all the sandwiches go to the school trip. How many is that?

Question 14

Question 14 – Shoes by the door *(Section B · Real-life practice)*

After school, the children leave their shoes in a row by the door. Each child has one pair of shoes. There are 7 children in the group. Each pair has 2 shoes.



a. Count in 2s. How many shoes are there?
b. Another group of 3 children arrives. How many more shoes is that?
c. How many shoes are there now altogether?
d. Half of the shoes are black. How many black shoes are there?

Question 15

Question 15 – Pizza party *(Section C · Problem solving)*

Nadia is making pizzas. Each pizza needs 5 slices of cheese. She makes 4 pizzas. Her

brother says "That is more than 15 slices of cheese". The cheese comes in packs of 10 slices.



a. How many slices of cheese does Nadia need for 4 pizzas? Count in 5s.
b. Is her brother right? Explain.
c. How many packs of 10 does she need to buy?
d. How many slices will be left over?

Question 16

Question 16 – The sticker swap *(Section C · Problem solving)*

Tara has 16 stickers. She gives half of them to her sister. Her sister already had 4 stickers of her own. Then they decide to stick all their stickers on one big poster.

a. How many stickers does Tara give to her sister? Find half of 16.
b. How many stickers does Tara have left?
c. How many stickers does her sister have now?
d. How many stickers are on the poster altogether?

Question 17

Question 17 – Find the mistake *(Section C · Problem solving)*

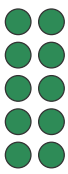
Ben did his equal groups homework. Some of his answers are wrong. Check each one.

a. 4 groups of 2 is 6.
b. Double 7 is 14.
c. Half of 18 is 8.
d. 3 groups of 5 is 15.

Question 18

Question 18 – The school garden *(Section C · Problem solving)*

The school garden has 4 beds. Each bed has 5 rows of plants. In each row there are 2 plants. The teacher says "There are more than 30 plants". Is she right?



a. How many plants are in one bed? Count in 2s, 5 times.
b. How many plants are in all 4 beds? Count in 10s.
c. Is the teacher right? Explain.
d. Half of the plants are flowers. How many flowers are there?

Question 19

Question 19 – Challenge: doubling story *(Section D · Challenge)*

A seed doubles in number every day in a garden pot. On Monday there is 1 seed. On Tuesday there are 2. On Wednesday there are 4.

a. How many seeds will there be on Thursday?
b. How many seeds on Friday?
c. On which day will there be more than 20 seeds? Keep doubling.
d. How many seeds are there altogether if you add Monday to Thursday?

Question 20

Question 20 – Challenge: all the ways *(Section D · Challenge)*

Zak has 12 counters. He wants to make equal groups with no counters left over.

a. Make groups of 2. How many groups?
b. Make groups of 3. How many groups?
c. Make groups of 4. How many groups?
d. Can he make equal groups of 5 with no counters left? Explain.