

Arrays for Every Job

GRADE 3

MATHEMATICS

B2.6

An array lays multiplication out in rows and columns. Three rows of four dots is $3 \times 4 = 12$ dots. Counting the rows and what is in each one gives you the answer every time.

PART A: ROWS AND COLUMNS

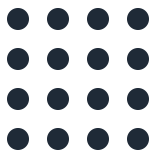
1. 2 rows of 5 dots is $2 \times 5 =$ _____.



2. 3 rows of 4 dots is $3 \times 4 =$ _____.



3. 4 rows of 4 dots is $4 \times 4 =$ _____.



4. 5 rows of 3 dots is $5 \times 3 =$ _____.



PART B: DAYS OF JOB PAY

5. A job pays \$3 a day. In 4 days it pays \$_____.

6. A job pays \$5 a day. In 3 days it pays \$_____.

7. A job pays \$2 a day. In 5 days it pays \$_____.

8. A job pays \$6 a day. In 2 days it pays \$_____.

PART C: SHARE IT OUT

9. Pedro has 12 stickers to share equally among 3 friends. How many does each friend get?

SHOW YOUR WORK

Answer: _____

10. A \$20 bonus is shared equally among 4 students. How much does each student get?

SHOW YOUR WORK

Answer: _____

PART D: QUICK CHECKS

11. How many dots are in an array of 4 rows with 5 dots in each row?



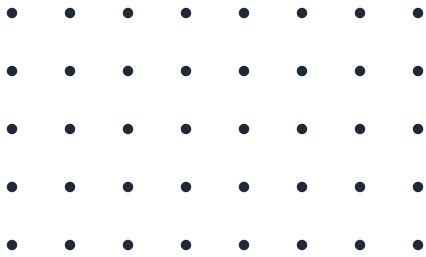
(A) 20 (B) 9 (C) 45

12. 18 stickers shared equally among 3 friends gives each friend:

(A) 6 (B) 3 (C) 15

PART E: DRAW THE JOB

- 13.** Draw an array for a job that pays \$4 a day for 3 days. On the dot paper, circle 3 rows of 4 dots, one row for each day and one dot for each dollar. Then write the multiplication fact and the total underneath.



PART F: NAME THE ARRAY

- 14.** Write the multiplication fact for this array: _____ $\times$ _____ = _____.



- 15.** Write the multiplication fact for this array: _____ $\times$ _____ = _____.



- 16.** Write the multiplication fact for this array: _____ $\times$ _____ = _____.



- 17.** Write the multiplication fact for this array: _____ $\times$ _____ = _____.



1. 10
2. 12
3. 16
4. 15
5. 12
6. 15
7. 10
8. 12
9. 4 stickers each.
10. \$5 each.
11. A) 20
12. A) 6
13. 3 rows of 4 dots circled, one row for each day and one dot for each dollar, labelled $3 \times 4 = 12$, so the job pays \$12.
14. $2 \times 6 = 12$, or $6 \times 2 = 12$
15. $3 \times 5 = 15$, or $5 \times 3 = 15$
16. $4 \times 3 = 12$, or $3 \times 4 = 12$
17. $2 \times 7 = 14$, or $7 \times 2 = 14$

TEACHER NOTES

Reduced expectations: every fact stays inside 6×7 , Part A draws each array so students count before they multiply, Part A gives the number sentence before Part B asks students to build one, and the division in Part C is sharing rather than grouping. The Standard sheet in this unit asks students to draw the arrays themselves.