

Luna's Space Adventure

Name _____

Grade 3 · Times tables to 12 · MA.3.NSO.2.4

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Elevens and twelves

11×7 is 10×7 and one more 7.

$11 \times 3 = \square$

$2 \times 12 = \square$

$11 \times 10 = \square$

$11 \times 4 = \square$

$6 \times 12 = \square$

$11 \times 2 = \square$

$11 \times 5 = \square$

$5 \times 12 = \square$

$10 \times 12 = \square$

$11 \times 8 = \square$

$7 \times 11 = \square$

$12 \times 3 = \square$

Missing factors

What times the number makes the product?

$\square \times 11 = 88$

$12 \times \square = 36$

$12 \times \square = 48$

$\square \times 4 = 44$

$\square \times 12 = 96$

$\square \times 10 = 110$

Division facts

Think of the times fact.

$108 \div 9 = \square$

$144 \div 12 = \square$

$33 \div 3 = \square$

$55 \div 11 = \square$

$44 \div 11 = \square$

$24 \div 12 = \square$

Count by 11s and 12s

Fill in the boxes.

55, 66, , , 99,

72, 84, 96, , ,



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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Elevens and twelves 11×7 is 10×7 and one more 7.

$$11 \times 3 = \boxed{33}$$

$$2 \times 12 = \boxed{24}$$

$$11 \times 10 = \boxed{110}$$

$$11 \times 4 = \boxed{44}$$

$$6 \times 12 = \boxed{72}$$

$$11 \times 2 = \boxed{22}$$

$$11 \times 5 = \boxed{55}$$

$$5 \times 12 = \boxed{60}$$

$$10 \times 12 = \boxed{120}$$

$$11 \times 8 = \boxed{88}$$

$$7 \times 11 = \boxed{77}$$

$$12 \times 3 = \boxed{36}$$

Missing factors What times the number makes the product?

$$\boxed{8} \times 11 = 88$$

$$12 \times \boxed{3} = 36$$

$$12 \times \boxed{4} = 48$$

$$\boxed{11} \times 4 = 44$$

$$\boxed{8} \times 12 = 96$$

$$\boxed{11} \times 10 = 110$$

Division facts Think of the times fact.

$$108 \div 9 = \boxed{12}$$

$$144 \div 12 = \boxed{12}$$

$$33 \div 3 = \boxed{11}$$

$$55 \div 11 = \boxed{5}$$

$$44 \div 11 = \boxed{4}$$

$$24 \div 12 = \boxed{2}$$

Count by 11s and 12s Fill in the boxes.

55, 66, $\boxed{77}$, $\boxed{88}$, 99, $\boxed{110}$

72, 84, 96, $\boxed{108}$, $\boxed{120}$, $\boxed{132}$



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GUIDE

1 What this sheet practises

Multiplying and dividing with 11 and 12, up to 12×12 , and finding the missing factor.

2 A problem from the sheet, worked out

Elevens and twelves 11×7 is 10×7 and one more 7.

$$11 \times 3 = 33$$

$$2 \times 12 = 24$$

$$11 \times 10 = 110$$

$$11 \times 4 = 44$$

$$6 \times 12 = 72$$

$$11 \times 2 = 22$$

$$11 \times 5 = 55$$

$$5 \times 12 = 60$$

$$10 \times 12 = 120$$

How: Split the big factor: 12×7 is 10×7 plus 2×7 , so $70 + 14 = 84$. For division, ask what times the divisor makes the number.

3 Words to know

factor a number being multiplied

product the answer to a multiplication

quotient the answer to a division

fact family the times and division facts from three numbers

4 Watch for

- Thinking 11×12 is 1212 because 11×3 is 33.
- Adding the $2 \times$ part instead of multiplying: $12 \times 7 = 72$.
- Mixing up the divisor and the quotient when a factor is missing.

5 Where it fits

BEFORE

3.OA.C.7

Multiply and divide within 100, and know the times tables from memory.

THIS SHEET

MA.3.NSO.2.4

Multiply numbers 0 to 12 and divide with the matching facts, using a method that works every time.

NEXT

4.NBT.B.5

Multiply up to four digits by one digit, and two digits by two digits.

6 Helping at home

Count by 12s with egg cartons or months in a year. Ask how many eggs in 7 dozen, and how they worked it out.

