Steady Steps Maths

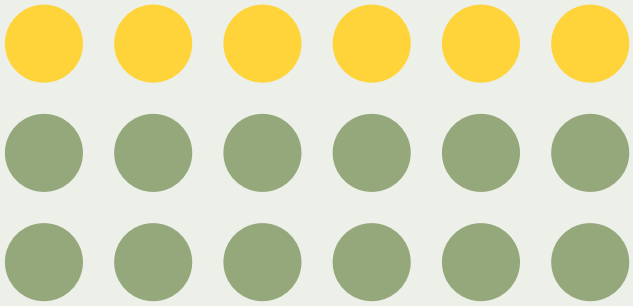
FREE SAMPLE WORKSHEET · TOPIC 2

FREE SAMPLE

Factors, Multiples & Patterns

Free sample worksheet · with answers

GRADE 4



1 × 18 2 × 9 3 × 6

factor pairs of 18

Common Core 4.OA.B.4, 4.OA.C.5

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Quick recap

The big idea from each pack in this topic. Read it first, then try the questions.

Learn it · Pack 1 · Factor pairs

Two numbers that multiply to make a number are a factor pair.

Factor pairs of 26: 1 × 26, 2 × 13, so the factors are **1, 2, 13, 26**.

Learn it · Pack 2 · Multiples and primes

A prime number has exactly two factors: 1 and itself.

Multiples of 6: 6, 12, 18, 24 ... 37 is **prime**; 39 = 3 × 13 is **composite**.

Learn it · Pack 3 · Patterns

Follow the rule, then look for other features the rule does not say.

Start at 4, add 7: 4, 11, 18, 25, 32 ... the numbers **take turns** being even and odd.

PACK 1 Factor Pairs

1 Write all the factor pairs of 22.

Answer

2 Write all the factor pairs of 64.

Answer

3 List all the factors of 27.

Answer

4 List all the factors of 50.

Answer

5 Is 6 a factor of 87?

Answer

6 Is 7 a factor of 91?

Answer

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PACK 2 Multiples, Primes & Composites

7 Write the first 6 multiples of 7.

Answer

8 Which multiples of 8 are between 30 and 60?

Answer

9 Is 76 a multiple of 4?

Answer

10 Is 43 prime or composite?

Answer

11 Is 57 prime or composite?

Answer

12 Write the prime numbers between 10 and 20.

Answer

PACK 3 Number & Shape Patterns

13 Start at 6 and add 8. Write the first 5 numbers.

Answer

14 Find the missing number: 9, 21, 33, ___, 57

Answer

15 Start at 3 and add 10. What do you notice about the ones digits?

Answer

16 A pattern repeats red, blue, blue, green. What is the 15th colour?

Answer

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Real life

Read carefully, then show your working

17 A gardener has 42 plants to put in equal rows, with none left over.
(a) Write all the factor pairs of 42. (b) Can she plant 8 rows? Explain.

Answer

18 A pond has 12 fish. Each month 5 more fish are added.
(a) How many fish are there after 4 months? (b) After how many months will there be 52 fish?

Answer

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Answer key

For parents · check the steps as well as the final answer

Pack 1	**1)** 1 × 22, 2 × 11 **2)** 1 × 64, 2 × 32, 4 × 16, 8 × 8 **3)** 1, 3, 9, 27 **4)** 1, 2, 5, 10, 25, 50 **5)** no (87 ÷ 6 = 14 r 3) **6)** yes (7 × 13 = 91)
Pack 2	**7)** 7, 14, 21, 28, 35, 42 **8)** 32, 40, 48, 56 **9)** yes (4 × 19 = 76) **10)** prime **11)** composite (3 × 19) **12)** 11, 13, 17, 19
Pack 3	**13)** 6, 14, 22, 30, 38 **14)** 45 (add 12) **15)** they all end in 3 **16)** blue
Real life	**17)** (a) 1 × 42, 2 × 21, 3 × 14, 6 × 7 (b) no: 8 is not a factor of 42 (42 ÷ 8 = 5 r 2) **18)** (a) 32 (b) 8 months

Tip: To find all the factor pairs, try 1, 2, 3 … in order and stop when the numbers start to repeat.

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Enjoyed this sample?

This sheet has 18 questions. The full topic has 136, plus 10 unit tests.

Everything a Grade 4 student needs on factors, multiples and patterns: arrays and factor pairs, finding all the factors of numbers to 100, multiples of one-digit numbers, prime and composite numbers, and number and shape patterns that follow a rule.

What you get	What's inside	Questions
Pack 1 · Factor Pairs	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 4.OA.B.4	46
Pack 2 · Multiples, Primes & Composites	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 4.OA.B.4	46
Pack 3 · Number & Shape Patterns	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 4.OA.C.5	44
Complete Topic book	All 3 packs in one book with a contents page	136
10 Unit Tests (A–J)	40 marks each, about 40 minutes, with a mark scheme and a "what to revise" table. **Test A is free.**	18 per test

How to use this sample

1. Let your child read the recap page and try the questions on their own.
2. Mark together with the answer key. Each section shows which pack it comes from.
3. If a section felt hard, that pack is the place to start. If it all felt easy, try the free Unit Test A.

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