

Name: \_\_\_\_\_

Factor Trees: 9 [ A ]



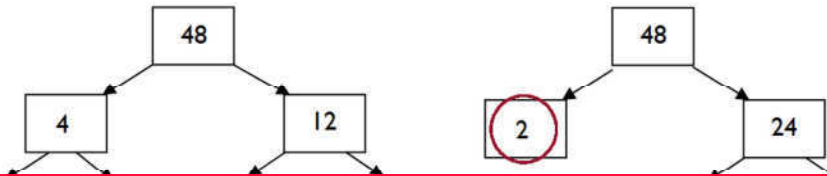
2&4	5&10	3&9	7&11	6,8&12	Finding Factors	LCM	GCF	Factor Trees	All
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**Factor Trees:**

One way to find the prime factors of a number is to draw a factor tree. To draw a factor tree, find two numbers that multiply together to make that number. Then find the factors of each of those numbers and so on until there you have only prime numbers. Under the factor tree write a number sentence for the start number using the prime numbers. (e.g.  $12 = 2 \times 2 \times 3$ )

N.B. There are different ways to draw a factor tree for the same number.

Here are two examples of factor trees for the same number. The prime factors are the same but the trees are different.



This is a

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48 = 2 × 2 × 2 × 2 × 3 × 3

24 = \_\_\_\_\_

24 = \_\_\_\_\_

**Multiplication revision**

- |                         |                          |
|-------------------------|--------------------------|
| 1) $5 \times 9 =$ _____ | 4) $10 \times 7 =$ _____ |
| 2) $5 \times 3 =$ _____ | 5) $7 \times 3 =$ _____  |
| 3) $6 \times 5 =$ _____ | 6) $10 \times 2 =$ _____ |

**Division revision**

- |                         |                         |
|-------------------------|-------------------------|
| 13) $90 \div 9 =$ _____ | 16) $45 \div 9 =$ _____ |
| 14) $50 \div 5 =$ _____ | 17) $42 \div 6 =$ _____ |
| 15) $36 \div 9 =$ _____ | 18) $21 \div 7 =$ _____ |

**Addition revision**

- |                    |                     |
|--------------------|---------------------|
| 7) $4 + 4 =$ _____ | 10) $9 + 7 =$ _____ |
| 8) $4 + 9 =$ _____ | 11) $9 + 3 =$ _____ |
| 9) $8 + 7 =$ _____ | 12) $5 + 8 =$ _____ |

**Subtraction revision**

- |                       |                      |
|-----------------------|----------------------|
| 19) $13 - 3 =$ _____  | 22) $13 - 9 =$ _____ |
| 20) $5 - 4 =$ _____   | 23) $9 - 7 =$ _____  |
| 21) $19 - 10 =$ _____ | 24) $7 - 4 =$ _____  |

This worksheet is part of the Professor Pete's Classroom eBook "Ten Minutes a Day 3: Factors and Multiples Worksheets". The recommended teaching sequence is shown in the bar at the top of this sheet.

Name: \_\_\_\_\_

Factor Trees: 9 [ B ]



2&4	5&10	3&9	7&11	6,8&12	Finding Factors	LCM	GCF	Factor Trees	All
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Draw factor trees for each of these numbers. Write the number sentence underneath.

27

64

27 = \_\_\_\_\_

64 = \_\_\_\_\_

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70 = \_\_\_\_\_

**Multiplication**

- 1)  $3 \times 7 =$  \_\_\_\_\_
- 2)  $10 \times 2 =$  \_\_\_\_\_
- 3)  $8 \times 7 =$  \_\_\_\_\_      8)  $9 \times 9 =$  \_\_\_\_\_
- 4)  $3 \times 3 =$  \_\_\_\_\_      9)  $6 \times 9 =$  \_\_\_\_\_
- 5)  $8 \times 6 =$  \_\_\_\_\_      10)  $4 \times 4 =$  \_\_\_\_\_

- 13)  $45 \div 5 =$  \_\_\_\_\_      18)  $4 \div 2 =$  \_\_\_\_\_
- 14)  $40 \div 4 =$  \_\_\_\_\_      19)  $54 \div 6 =$  \_\_\_\_\_
- 15)  $35 \div 5 =$  \_\_\_\_\_      20)  $18 \div 3 =$  \_\_\_\_\_

**Addition: Rainbow facts to 100**

- 21)  $92 + \underline{\quad} = 100$       26)  $58 + \underline{\quad} = 100$
- 22)  $48 + \underline{\quad} = 100$       27)  $36 + \underline{\quad} = 100$
- 23)  $63 + \underline{\quad} = 100$       28)  $88 + \underline{\quad} = 100$
- 24)  $68 + \underline{\quad} = 100$       29)  $46 + \underline{\quad} = 100$
- 25)  $25 + \underline{\quad} = 100$       30)  $26 + \underline{\quad} = 100$

**Subtraction: Rainbow facts to 100**

- 31)  $100 - \underline{\quad} = 15$       36)  $100 - \underline{\quad} = 22$
- 32)  $100 - \underline{\quad} = 34$       37)  $100 - \underline{\quad} = 23$
- 33)  $100 - \underline{\quad} = 48$       38)  $100 - \underline{\quad} = 57$
- 34)  $100 - \underline{\quad} = 28$       39)  $100 - \underline{\quad} = 35$
- 35)  $100 - \underline{\quad} = 2$       40)  $100 - \underline{\quad} = 69$

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Name: \_\_\_\_\_

Factor Trees: 9 [ C ]



2&4	5&10	3&9	7&11	6,8&12	Finding Factors	LCM	GCF	Factor Trees	All
-----	------	-----	------	--------	-----------------	-----	-----	--------------	-----

Draw factor trees for each of these numbers. Write the number sentence underneath.

21

40

21 = \_\_\_\_\_

40 = \_\_\_\_\_

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50 = \_\_\_\_\_

**Addition exercises**

- 1)  $56 + 7 =$  \_\_\_\_\_
- 2)  $37 +$  \_\_\_\_\_ = \_\_\_\_\_
- 3)  $38 + 5 =$  \_\_\_\_\_
- 4) \_\_\_\_\_  $+ 5 = 62$
- 5) \_\_\_\_\_  $+ 8 = 95$
- 8) \_\_\_\_\_  $+ 5 = 64$
- 9) \_\_\_\_\_  $+ 2 = 67$
- 10)  $29 + 1 =$  \_\_\_\_\_

- 13)  $65 -$  \_\_\_\_\_ = 5
- 14)  $46 - 41 =$  \_\_\_\_\_
- 15) \_\_\_\_\_  $- 80 = 7$
- 18)  $80 - 75 =$  \_\_\_\_\_
- 19) \_\_\_\_\_  $- 44 = 7$
- 20)  $90 -$  \_\_\_\_\_ = 1

**Division revision with remainders**

- 21)  $7 \div 7 =$  \_\_\_\_\_
- 22)  $3 \div 4 =$  \_\_\_\_\_
- 23)  $36 \div 4 =$  \_\_\_\_\_
- 24)  $31 \div 3 =$  \_\_\_\_\_
- 25)  $50 \div 4 =$  \_\_\_\_\_
- 26)  $18 \div 7 =$  \_\_\_\_\_
- 27)  $34 \div 5 =$  \_\_\_\_\_
- 28)  $52 \div 7 =$  \_\_\_\_\_
- 29)  $20 \div 5 =$  \_\_\_\_\_
- 30)  $29 \div 8 =$  \_\_\_\_\_
- 31)  $19 \div 6 =$  \_\_\_\_\_
- 32)  $16 \div 8 =$  \_\_\_\_\_
- 33)  $29 \div 9 =$  \_\_\_\_\_
- 34)  $5 \div 5 =$  \_\_\_\_\_
- 35)  $27 \div 9 =$  \_\_\_\_\_
- 36)  $4 \div 3 =$  \_\_\_\_\_
- 37)  $45 \div 3 =$  \_\_\_\_\_
- 38)  $12 \div 3 =$  \_\_\_\_\_
- 39)  $31 \div 6 =$  \_\_\_\_\_
- 40)  $27 \div 7 =$  \_\_\_\_\_

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