

Time:

Score:

Look for Patterns (9x, ÷9): 6 [A]



extension	x ÷	2	5&10	3	4	0,11&Squ	9	6	8	7	12	All
-----------	-----	---	------	---	---	----------	----------	---	---	---	----	-----

9x

- | | |
|--------------------------|---------------------------|
| 1) $9 \times 2 =$ _____ | 8) $9 \times 9 =$ _____ |
| 2) $9 \times 12 =$ _____ | 9) $9 \times 10 =$ _____ |
| 3) $9 \times 1 =$ _____ | 10) $9 \times 6 =$ _____ |
| 4) $9 \times 3 =$ _____ | 11) $9 \times 4 =$ _____ |
| 5) $9 \times 7 =$ _____ | 12) $9 \times 11 =$ _____ |
| 6) $9 \times 5 =$ _____ | 13) $9 \times 12 =$ _____ |
| 7) $9 \times 8 =$ _____ | 14) $9 \times 7 =$ _____ |

÷ 9

- | | |
|--------------------------|-------------------------|
| 43) $99 \div 9 =$ _____ | 50) $54 \div 9 =$ _____ |
| 44) $18 \div 9 =$ _____ | 51) $90 \div 9 =$ _____ |
| 45) $108 \div 9 =$ _____ | 52) $90 \div 9 =$ _____ |
| 46) $63 \div 9 =$ _____ | 53) $27 \div 9 =$ _____ |
| 47) $18 \div 9 =$ _____ | 54) $72 \div 9 =$ _____ |
| 48) $36 \div 9 =$ _____ | 55) $45 \div 9 =$ _____ |
| 49) $9 \div 9 =$ _____ | 56) $81 \div 9 =$ _____ |

Turn arounds

- | | |
|---------------------------|---------------------------|
| 15) $2 \times 9 =$ _____ | 22) $7 \times 9 =$ _____ |
| 16) $4 \times 9 =$ _____ | 23) $10 \times 9 =$ _____ |
| 17) $3 \times 9 =$ _____ | 24) $12 \times 9 =$ _____ |
| 18) $8 \times 9 =$ _____ | 25) $15 \times 9 =$ _____ |
| 19) $5 \times 9 =$ _____ | 26) $18 \times 9 =$ _____ |
| 20) $10 \times 9 =$ _____ | 27) $20 \times 9 =$ _____ |
| 21) $6 \times 9 =$ _____ | 28) $25 \times 9 =$ _____ |

Ninths - extension facts

- | | |
|---------------------------------|----------------------------------|
| 57) $\frac{1}{9}$ of 90 = _____ | 62) $\frac{1}{9}$ of 180 = _____ |
| 58) $\frac{2}{9}$ of 90 = _____ | 63) $\frac{2}{9}$ of 180 = _____ |
| 59) $\frac{3}{9}$ of 90 = _____ | 64) $\frac{3}{9}$ of 180 = _____ |
| 60) $\frac{4}{9}$ of 90 = _____ | 65) $\frac{4}{9}$ of 180 = _____ |
| 61) $\frac{5}{9}$ of 90 = _____ | 66) $\frac{5}{9}$ of 180 = _____ |

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9x extension

- | | |
|---------------------------|----------------------------|
| 29) $9 \times 30 =$ _____ | 36) $9 \times 40 =$ _____ |
| 30) $9 \times 40 =$ _____ | 37) $9 \times 50 =$ _____ |
| 31) $9 \times 60 =$ _____ | 38) $9 \times 60 =$ _____ |
| 32) $9 \times 80 =$ _____ | 39) $9 \times 100 =$ _____ |
| 33) $9 \times 50 =$ _____ | 40) $9 \times 100 =$ _____ |
| 34) $9 \times 10 =$ _____ | 41) $9 \times 80 =$ _____ |
| 35) $9 \times 30 =$ _____ | 42) $9 \times 30 =$ _____ |

- | | |
|--------------------------|--------------------------|
| 71) $270 \div 9 =$ _____ | 78) $900 \div 9 =$ _____ |
| 72) $810 \div 9 =$ _____ | 79) $720 \div 9 =$ _____ |
| 73) $630 \div 9 =$ _____ | 80) $630 \div 9 =$ _____ |

Revision with extension facts

- | | |
|--------------------------|---------------------------|
| 81) $7 \times 6 =$ _____ | 86) $80 + 30 =$ _____ |
| 82) $8 \times 5 =$ _____ | 87) $40 + 60 =$ _____ |
| 83) $6 + 3 =$ _____ | 88) $50 + 60 =$ _____ |
| 84) $9 \times 5 =$ _____ | 89) $90 + 90 =$ _____ |
| 85) $6 \times 9 =$ _____ | 90) $70 \times 9 =$ _____ |

Square roots

- | | |
|--------------------------|-------------------------|
| 91) $\sqrt{1} =$ _____ | 95) $\sqrt{25} =$ _____ |
| 92) $\sqrt{36} =$ _____ | 96) $\sqrt{9} =$ _____ |
| 93) $\sqrt{100} =$ _____ | 97) $\sqrt{16} =$ _____ |
| 94) $\sqrt{4} =$ _____ | 98) $\sqrt{49} =$ _____ |

This worksheet is part of the Professor Pete's Classroom eBook "Ten Minutes a Day Level 3: Extended Multiplication & Division Worksheets". The recommended teaching sequence is shown in the bar at the top of this sheet. 9x tables (number facts) are learned using a THINK OF TENS LESS ONE SET strategy. Talk about 9 as one less than ten: eg, $7 \times 9 = 7 \text{ tens} - 7 = 63$. There are many other patterns that can also be used.

Time:

Score:

Look for Patterns (9x, ÷9): 6 [B]



extension	x ÷	2	5&10	3	4	0,11&Squ	9	6	8	7	12	All
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9x

- | | |
|--------------------------|--------------------------|
| 1) $9 \times 8 =$ _____ | 8) $9 \times 10 =$ _____ |
| 2) $9 \times 12 =$ _____ | 9) $9 \times 3 =$ _____ |
| 3) $9 \times 11 =$ _____ | 10) $9 \times 9 =$ _____ |
| 4) $9 \times 6 =$ _____ | 11) $9 \times 7 =$ _____ |
| 5) $9 \times 4 =$ _____ | 12) $9 \times 5 =$ _____ |
| 6) $9 \times 3 =$ _____ | 13) $9 \times 2 =$ _____ |
| 7) $9 \times 1 =$ _____ | 14) $9 \times 8 =$ _____ |

÷ 9

- | | |
|-------------------------|--------------------------|
| 31) $81 \div 9 =$ _____ | 38) $99 \div 9 =$ _____ |
| 32) $9 \div 9 =$ _____ | 39) $45 \div 9 =$ _____ |
| 33) $27 \div 9 =$ _____ | 40) $54 \div 9 =$ _____ |
| 34) $72 \div 9 =$ _____ | 41) $54 \div 9 =$ _____ |
| 35) $90 \div 9 =$ _____ | 42) $63 \div 9 =$ _____ |
| 36) $36 \div 9 =$ _____ | 43) $36 \div 9 =$ _____ |
| 37) $18 \div 9 =$ _____ | 44) $108 \div 9 =$ _____ |

Turn arounds

- | | |
|---------------------------|--------------------------|
| 15) $3 \times 9 =$ _____ | 23) $6 \times 9 =$ _____ |
| 16) $10 \times 9 =$ _____ | 24) $4 \times 9 =$ _____ |
| 17) 7×9 _____ | |
| 18) 9×9 _____ | |
| 19) 1×9 _____ | |
| 20) 5×9 _____ | |
| 21) 10×9 _____ | |
| 22) 4×9 _____ | |

Ninths - extension facts

- | | |
|----------------------------------|----------------------------------|
| 45) $\frac{1}{9}$ of 720 = _____ | 50) $\frac{1}{9}$ of 540 = _____ |
|----------------------------------|----------------------------------|

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Multiplication

- | | |
|----------------------------|----------------------------|
| 55) 9×1 _____ | |
| 56) 9×0 _____ | |
| 57) 9×1 _____ | |
| 58) 9×0 _____ | |
| 59) $9 \times 0.6 =$ _____ | 66) $9 \times 0.8 =$ _____ |
| 60) $9 \times 0.2 =$ _____ | 67) $9 \times 0.7 =$ _____ |
| 61) $9 \times 0.5 =$ _____ | 68) $9 \times 0.8 =$ _____ |

Square roots

- | | |
|--------------------------|--------------------------|
| 93) $\sqrt{100} =$ _____ | 97) $\sqrt{16} =$ _____ |
| 94) $\sqrt{1} =$ _____ | 98) $\sqrt{25} =$ _____ |
| 95) $\sqrt{49} =$ _____ | 99) $\sqrt{9} =$ _____ |
| 96) $\sqrt{4} =$ _____ | 100) $\sqrt{36} =$ _____ |

Revision with extension facts

- | | |
|--------------------------|---------------------------|
| 83) $6 + 6 =$ _____ | 88) $50 \times 6 =$ _____ |
| 84) $8 \times 3 =$ _____ | 89) $9 \times 30 =$ _____ |
| 85) $6 + 9 =$ _____ | 90) $50 \times 9 =$ _____ |
| 86) $7 + 5 =$ _____ | 91) $50 + 50 =$ _____ |
| 87) $7 \times 6 =$ _____ | 92) $90 + 60 =$ _____ |

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Time:

Score:

Look for Patterns (9x, ÷9): 6 [C]



extension	x ÷	2	5&10	3	4	0,11&Squ	9	6	8	7	12	All
-----------	-----	---	------	---	---	----------	----------	---	---	---	----	-----

9x

- | | |
|--------------------------|---------------------------|
| 1) $9 \times 5 =$ _____ | 8) $9 \times 1 =$ _____ |
| 2) $9 \times 2 =$ _____ | 9) $9 \times 11 =$ _____ |
| 3) $9 \times 8 =$ _____ | 10) $9 \times 10 =$ _____ |
| 4) $9 \times 7 =$ _____ | 11) $9 \times 4 =$ _____ |
| 5) $9 \times 10 =$ _____ | 12) $9 \times 7 =$ _____ |
| 6) $9 \times 3 =$ _____ | 13) $9 \times 6 =$ _____ |
| 7) $9 \times 9 =$ _____ | 14) $9 \times 12 =$ _____ |

÷ 9

- | | |
|-------------------------|--------------------------|
| 43) $27 \div 9 =$ _____ | 50) $90 \div 9 =$ _____ |
| 44) $63 \div 9 =$ _____ | 51) $18 \div 9 =$ _____ |
| 45) $54 \div 9 =$ _____ | 52) $90 \div 9 =$ _____ |
| 46) $45 \div 9 =$ _____ | 53) $99 \div 9 =$ _____ |
| 47) $36 \div 9 =$ _____ | 54) $108 \div 9 =$ _____ |
| 48) $54 \div 9 =$ _____ | 55) $9 \div 9 =$ _____ |
| 49) $72 \div 9 =$ _____ | 56) $81 \div 9 =$ _____ |

Turn arounds

- | | |
|---------------------------|---------------------------|
| 15) $6 \times 9 =$ _____ | 22) $9 \times 9 =$ _____ |
| 16) $11 \times 9 =$ _____ | 23) $9 \times 11 =$ _____ |
| 17) $10 \times 9 =$ _____ | 24) $9 \times 10 =$ _____ |
| 18) $4 \times 9 =$ _____ | 25) $9 \times 4 =$ _____ |
| 19) $9 \times 9 =$ _____ | 26) $9 \times 9 =$ _____ |
| 20) $5 \times 9 =$ _____ | 27) $9 \times 5 =$ _____ |
| 21) $3 \times 9 =$ _____ | 28) $9 \times 3 =$ _____ |

Ninths - extension facts

- | | |
|---------------------------------|----------------------------------|
| 57) $\frac{1}{9}$ of 90 = _____ | 62) $\frac{1}{9}$ of 180 = _____ |
|---------------------------------|----------------------------------|

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9x extension

- | | |
|----------------------------|----------------------------|
| 29) $9 \times 100 =$ _____ | 36) $9 \times 100 =$ _____ |
| 30) $9 \times 10 =$ _____ | 37) $9 \times 10 =$ _____ |
| 31) $9 \times 60 =$ _____ | 38) $9 \times 60 =$ _____ |
| 32) $9 \times 90 =$ _____ | 39) $9 \times 90 =$ _____ |
| 33) $9 \times 50 =$ _____ | 40) $9 \times 30 =$ _____ |
| 34) $9 \times 110 =$ _____ | 41) $9 \times 70 =$ _____ |
| 35) $9 \times 30 =$ _____ | 42) $9 \times 80 =$ _____ |

- | | |
|--------------------------|--------------------------|
| 71) $540 \div 9 =$ _____ | 78) $90 \div 9 =$ _____ |
| 72) $990 \div 9 =$ _____ | 79) $720 \div 9 =$ _____ |
| 73) $900 \div 9 =$ _____ | 80) $360 \div 9 =$ _____ |

Addition: Count on with tenths

- | | |
|-------------------------|-------------------------|
| 81) $0.3 + 0.2 =$ _____ | 86) $0.6 + 0.3 =$ _____ |
| 82) $0.2 + 0.1 =$ _____ | 87) $0.7 + 0.2 =$ _____ |
| 83) $0.5 + 0.2 =$ _____ | 88) $0.2 + 0.2 =$ _____ |
| 84) $0.1 + 0.3 =$ _____ | 89) $0.6 + 0.2 =$ _____ |
| 85) $0.9 + 0.2 =$ _____ | 90) $0.1 + 0.2 =$ _____ |

Subtraction: Count back with tenths

- | | |
|-------------------------|--------------------------|
| 91) $1.1 - 0.2 =$ _____ | 92) $1.2 - 0.2 =$ _____ |
| 93) $1.2 - 0.1 =$ _____ | 94) $1.0 - 0.2 =$ _____ |
| 95) $1.2 - 0.3 =$ _____ | 96) $1.0 - 0.1 =$ _____ |
| 97) $1.1 - 0.1 =$ _____ | 98) $0.9 - 0.2 =$ _____ |
| 99) $1.3 - 0.3 =$ _____ | 100) $1.1 - 0.3 =$ _____ |

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