

Multiplication Facts and Properties: math test, Grade 3 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Facts

/ 4 pts

Find each product (0.5 point each). a) 5×9 b) 4×7 c) 3×8 d) 6×6 e) 9×8 f) 2×9 g) 10×7 h) 7×7

2 Multiples of 10

/ 3 pts

Find each product. a) 4×30 b) 6×20 c) 7×50

3 Distributive property

/ 4 pts

Use the distributive property to find a) 7×6 by splitting 6 into $5 + 1$, and b) 6×9 by splitting 9 into $5 + 4$. Show every step.

4 Associative property

/ 3 pts

a) Show that $(3 \times 5) \times 2$ and $3 \times (5 \times 2)$ are equal. b) Find $4 \times 5 \times 6$ in the way you prefer.

5

Patterns

/ 3 pts

Here are the facts of 9: 9, 18, 27, ____, 45, ____, 63. a) Fill in the missing numbers. b) What do you notice about the digits of every product of 9?

6

Problem solving

/ 3 pts

A school orders 8 boxes of markers with 6 markers in each box, and 4 boxes of crayons with 9 crayons in each box. a) How many markers? b) How many crayons? c) How many markers and crayons in all?

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