

Understanding Division: math test solutions, Grade 3

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Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 Division facts

/ 3 pts

- a) $14 \div 2 = 7$ (0.5 pt)
- b) $49 \div 7 = 7$ (0.5 pt)
- c) $90 \div 10 = 9$ (0.5 pt)
- d) $24 \div 8 = 3$ (0.5 pt)
- e) $18 \div 9 = 2$ (0.5 pt)
- f) $81 \div 9 = 9$ (0.5 pt)

2 Vocabulary and related facts

/ 3 pts

- a) The dividend is 48, the divisor is 6 and the quotient is 8. (1.5 pt)
- b) $8 \times 6 = 48$ (or $6 \times 8 = 48$). (0.5 pt)
- c) $48 \div 8 = 6$. (1 pt)

3**Fact families****/ 3 pts**

- a) $4 \times 9 = 36$, $9 \times 4 = 36$, $36 \div 4 = 9$ and $36 \div 9 = 4$. (0.5 pt for each fact, 2 pts in all)
- b) The two small numbers are the same, so the two multiplications are identical ($5 \times 5 = 25$) and the two divisions are identical ($25 \div 5 = 5$). Only two different facts remain. (1 pt)

4**Unknown numbers****/ 3 pts**

- a) $n = 42 \div 7 = 6$. (1 pt)
- b) $7 \times n = 56$, so $n = 8$. (1 pt)
- c) $n = 5 \times 9 = 45$. (1 pt)

5**Word problems****/ 4 pts**

- a) $56 \div 7 = 8$ (1 pt). There are 8 crayons in each box. (1 pt)
- b) $30 \div 6 = 5$ (1 pt). She makes 5 rows. (1 pt)

6**The library shelves****/ 4 pts**

- a) $80 \div 10 = 8$ (1 pt). There are 8 books on each shelf. (1 pt)
- b) $8 \div 4 = 2$ (1 pt). Each box gets 2 books. (1 pt)

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