

3rd Grade Math Worksheet: the four skills that decide 4th grade

Twenty questions. Sit with your child for 20 minutes; no calculator. Note where it slows down. Answers on page 2. Under 12 right, or any section at zero, tells you what a tutor should do first: see sciencewithshobha.com/blog/3rd-grade-tutoring-cost-what-a-good-tutor-does-and-a-free-worksheet/

A. Multiplication and division facts (say the answer in under 3 seconds)

- | | |
|-------------------------|--------------------------|
| 1. $7 \times 6 =$ _____ | 2. $9 \times 4 =$ _____ |
| 3. $8 \times 8 =$ _____ | 4. $6 \times 12 =$ _____ |
| 5. $56 \div 7 =$ _____ | 6. $45 \div 9 =$ _____ |

B. Fractions as numbers

7. Draw a line from 0 to 1. Mark $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{3}{4}$ on it.
8. Which is bigger, $\frac{1}{3}$ or $\frac{1}{4}$? Circle it, and say why.
9. Shade $\frac{2}{6}$ of this bar, then write the same fraction in another way: [][][][][][] $\frac{2}{6} =$ _____
10. Four friends share 3 pizzas equally. How much pizza does each friend get? _____

C. Two-step word problems (read the whole question first)

11. Maria had 24 stickers. She gave 6 stickers to each of 3 friends. How many stickers does she have left? _____
12. A box holds 8 crayons. Sam has 5 boxes and gives away 12 crayons. How many crayons does Sam have now? _____
13. Tickets cost \$4 each. A family of 5 pays with a \$50 note. How much change do they get? _____
14. There are 36 children in 3 equal teams. Then 2 children leave each team. How many children are in one team now? _____
15. A book has 96 pages. Ana reads 8 pages a day for 7 days. How many pages are left? _____

D. Measurement, time and area

16. What time is it 35 minutes after 2:50? _____
17. A rectangle is 7 cm long and 4 cm wide. What is its area? _____ What is its perimeter? _____
18. Which is more: 1 kilogram of feathers or 800 grams of rocks? _____
19. Round 347 to the nearest ten _____ and to the nearest hundred _____

20. $500 - 263 = \underline{\hspace{2cm}}$ (show your working)

Answers

A. 1) 42 2) 36 3) 64 4) 72 5) 8 6) 5

B. 7) $\frac{1}{4}$ is a quarter of the way along, $\frac{1}{2}$ halfway, $\frac{3}{4}$ three quarters of the way. 8) $\frac{1}{3}$ is bigger: the whole is cut into fewer, larger pieces. 9) Two of the six parts shaded; $\frac{2}{6} = \frac{1}{3}$. 10) $\frac{3}{4}$ of a pizza each (3 pizzas $\div$ 4 friends).

C. 11) $24 - (6 \times 3) = 24 - 18 = 6$. 12) $(8 \times 5) - 12 = 40 - 12 = 28$. 13) $50 - (4 \times 5) = 50 - 20 = \30 . 14) $36 \div 3 = 12$, then $12 - 2 = 10$. 15) $96 - (8 \times 7) = 96 - 56 = 40$.

D. 16) 3:25. 17) Area 28 cm^2 , perimeter 22 cm. 18) 1 kilogram of feathers (1000 g is more than 800 g). 19) 350 and 300. 20) 237.

What the score means

17 to 20: on track; one class a week keeps it there. 12 to 16: one section is weak; ten minutes a day on that section for a month. Under 12, or a section at zero: the 4th grade curriculum assumes these four skills, so this is the term to fix them, with two 45-minute classes a week.

The four skills, and what to practise

Facts: 20 spoken facts a day, timed. Fractions: draw them before writing them; number lines on paper strips. Word problems: read aloud, underline the numbers, decide the two steps before touching a pencil. Measurement and time: a clock with hands in the kitchen, a ruler in the pencil case.

Science with Shobha teaches 3rd grade maths 1-on-1 online, in the US order with the state test format from the spring, US\$10 an hour, the recording of every class and the same tutor into 4th and 5th grade. Free 30-minute first class: sciencewithshobha.com/subjects/grade-3-math/