FAIR ELEVEN

Practice pack: Fractions of amounts

Mathematics

20 practice questions on fractions of amounts, from easier to harder, with a worked example first.

Do the questions in order: they get harder as you go. Write your working in the margin. If you get stuck, read the worked example again, then move on and come back.

Answers and explanations are at the back. Mark your work when you have finished, then look closely at any you got wrong.

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Fractions of amounts

You will have 25 minutes for this section.

Answer each question.

Example

E A class collects 30 bottle tops. They use 2/3 of them for an art project. How many bottle tops do they use?

A 10	**B** 15	**C** 16	**D** 20	**E** 45

The answer is D. 30 ÷ 3 = 10, then × 2 = 20. Watch out for 10: you get that if you find one part only.

Wait until you are told to start.

1 What is 9/10 of 60?

A 6	**B** 42	**C** 46	**D** 50	**E** 54

2 What is 3/5 of 40?

A 8	**B** 16	**C** 22	**D** 24	**E** 67

3 What is 3/4 of 20?

A 5	**B** 10	**C** 11	**D** 12	**E** 15

4 What is 3/8 of 120?

A 15	**B** 45	**C** 51	**D** 75	**E** 320

5 What is 3/4 of 48?

A 12	**B** 16	**C** 36	**D** 42	**E** 64

6 What is 2/3 of 24?

A 8	**B** 12	**C** 14	**D** 15	**E** 16

7 A class collects 32 bottle tops. They use 3/4 of them for an art project. How many bottle tops do they use?

A 8	**B** 24	**C** 27	**D** 28	**E** 43

8 A class collects 36 bottle tops. They use 3/4 of them for an art project. How many bottle tops do they use?

A 9	**B** 12	**C** 25	**D** 26	**E** 27

9 What is 7/8 of 56?

A 7	**B** 8	**C** 39	**D** 49	**E** 64

10 A class collects 55 bottle tops. They use 2/5 of them for an art project. How many bottle tops do they use?

A 22	**B** 26	**C** 28	**D** 33	**E** 138

11 What is 2/5 of 65?

A 13	**B** 21	**C** 22	**D** 23	**E** 26

12 A class collects 50 bottle tops. They use 3/5 of them for an art project. How many bottle tops do they use?

A 10	**B** 30	**C** 32	**D** 35	**E** 83

13 What is 2/3 of 36?

A 12	**B** 18	**C** 24	**D** 25	**E** 54

14 A class collects 80 bottle tops. They use 7/10 of them for an art project. How many bottle tops do they use?

A 8	**B** 24	**C** 52	**D** 56	**E** 114

15 What is 7/10 of 150?

A 15	**B** 45	**C** 105	**D** 121	**E** 214

16 What is 2/3 of 27?

A 9	**B** 13	**C** 16	**D** 18	**E** 41

17 A class collects 35 bottle tops. They use 2/5 of them for an art project. How many bottle tops do they use?

A 14	**B** 18	**C** 20	**D** 21	**E** 88

18 What is 5/6 of 48?

A 40	**B** 42	**C** 48	**D** 52	**E** 58

19 What is 3/4 of 28?

A 7	**B** 21	**C** 23	**D** 25	**E** 37

20 What is 3/10 of 80?

A 8	**B** 24	**C** 25	**D** 56	**E** 267

STOP. Wait for further instructions.

Answers and explanations

1	**E**	60 ÷ 10 = 6, then × 9 = 54. Watch out for 6: you get that if you find one part only.
2	**D**	40 ÷ 5 = 8, then × 3 = 24. Watch out for 8: you get that if you find one part only.
3	**E**	20 ÷ 4 = 5, then × 3 = 15. Watch out for 5: you get that if you find one part only.
4	**B**	120 ÷ 8 = 15, then × 3 = 45. Watch out for 15: you get that if you find one part only.
5	**C**	48 ÷ 4 = 12, then × 3 = 36. Watch out for 12: you get that if you find one part only.
6	**E**	24 ÷ 3 = 8, then × 2 = 16. Watch out for 8: you get that if you find one part only.
7	**B**	32 ÷ 4 = 8, then × 3 = 24. Watch out for 8: you get that if you find one part only.
8	**E**	36 ÷ 4 = 9, then × 3 = 27. Watch out for 9: you get that if you find one part only.
9	**D**	56 ÷ 8 = 7, then × 7 = 49. Watch out for 7: you get that if you find one part only.
10	**A**	55 ÷ 5 = 11, then × 2 = 22. Watch out for 33: you get that if you find the remaining part.
11	**E**	65 ÷ 5 = 13, then × 2 = 26. Watch out for 13: you get that if you find one part only.
12	**B**	50 ÷ 5 = 10, then × 3 = 30. Watch out for 10: you get that if you find one part only.
13	**C**	36 ÷ 3 = 12, then × 2 = 24. Watch out for 12: you get that if you find one part only.
14	**D**	80 ÷ 10 = 8, then × 7 = 56. Watch out for 8: you get that if you find one part only.
15	**C**	150 ÷ 10 = 15, then × 7 = 105. Watch out for 15: you get that if you find one part only.
16	**D**	27 ÷ 3 = 9, then × 2 = 18. Watch out for 9: you get that if you find one part only.
17	**A**	35 ÷ 5 = 7, then × 2 = 14. Watch out for 21: you get that if you find the remaining part.
18	**A**	48 ÷ 6 = 8, then × 5 = 40. Watch out for 58: you get that if you inverted the fraction.
19	**B**	28 ÷ 4 = 7, then × 3 = 21. Watch out for 7: you get that if you find one part only.
20	**B**	80 ÷ 10 = 8, then × 3 = 24. Watch out for 8: you get that if you find one part only.

Got some wrong? That is how learning works. Look at the explanation, try a similar question in a day or two, and note the topic for your next practice.