



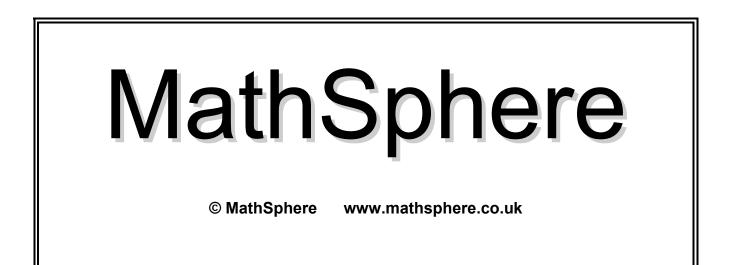


Y6 Addition and Subtraction 6203

Use known number facts to add or subtract decimals.

Equipment

Paper, pencil, ruler Number cards Stop clock



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Concepts

In year 6 children are expected to continue to calculate mentally using a variety of methods, concentrating more at this age on decimal fractions. They are also expected to explain their methods, both orally and in writing.

The main types of problem encountered when adding and subtracting decimal fractions are to do with place value.

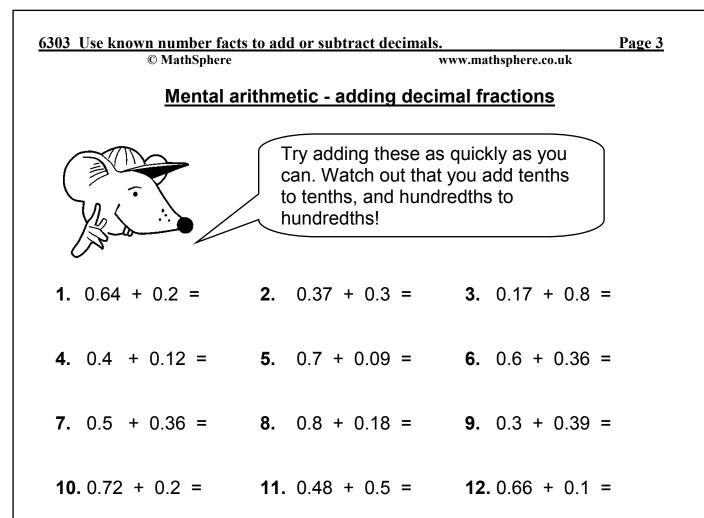
Example:

0.03 + 0.4 a common error would be to write 0.07 or 0.7, rather than the correct answer of 0.43.

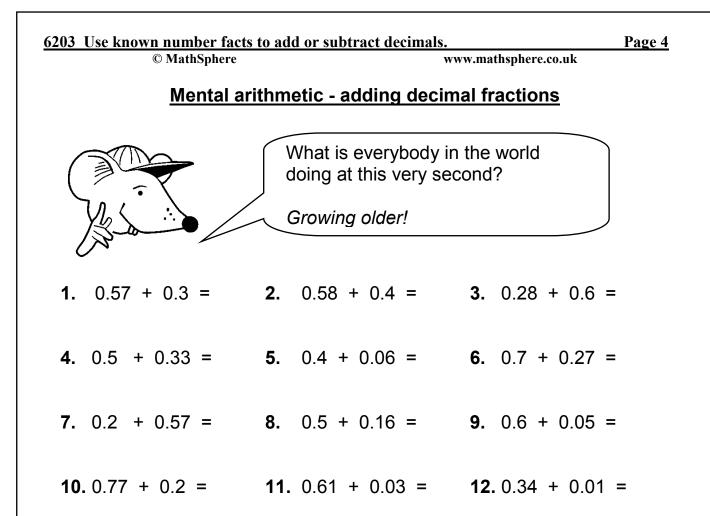
In a similar way:

0.5 - 0.43 some children will say that "you can't do it", believing that the **0.43** is a larger number than the **0.5**.

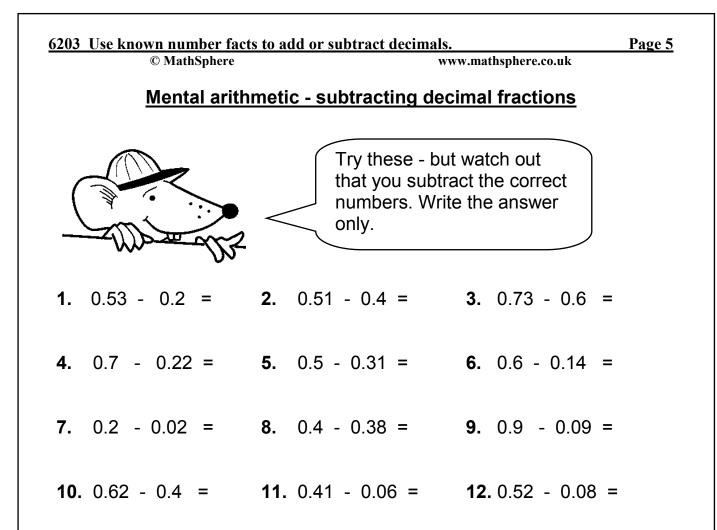
All methods used must be explained by the child, in words and writing.



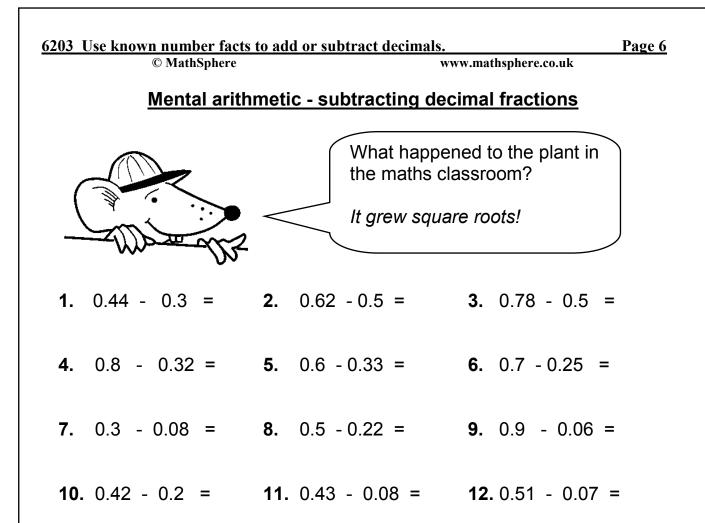
e.g. 0.4 + 0.23 = 0.63	Explain: I just added the four tenths to the two tenths and three hundredths, making 0.63
13. 0.3 + 0.47 =	Explain:
14. 0.23 + 0.02 =	Explain:
15. 0.4 + 0.16 =	Explain:



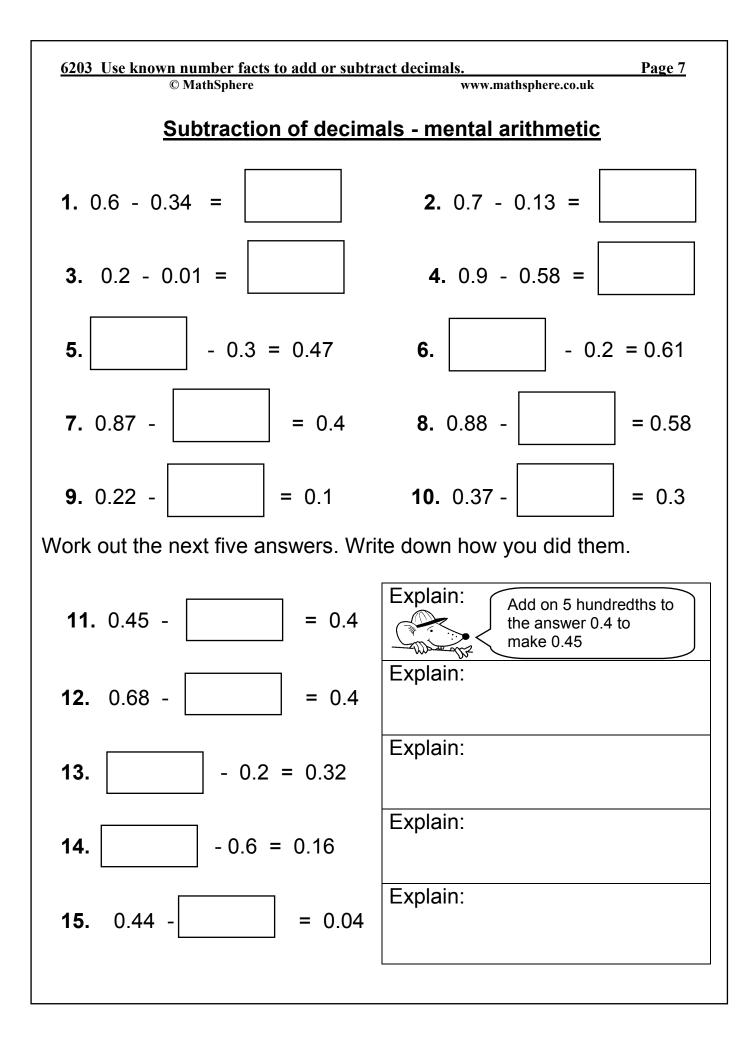
e.g. 0.02 + 0.2 = 0.22	Explain: I just added the two tenths to the tenths column, where there weren't any so the answer is 0.22
13. 0.5 + 0.32 =	Explain:
14. 0.26 + 0.03 =	Explain:
15. 0.6 + 0.12 =	Explain:

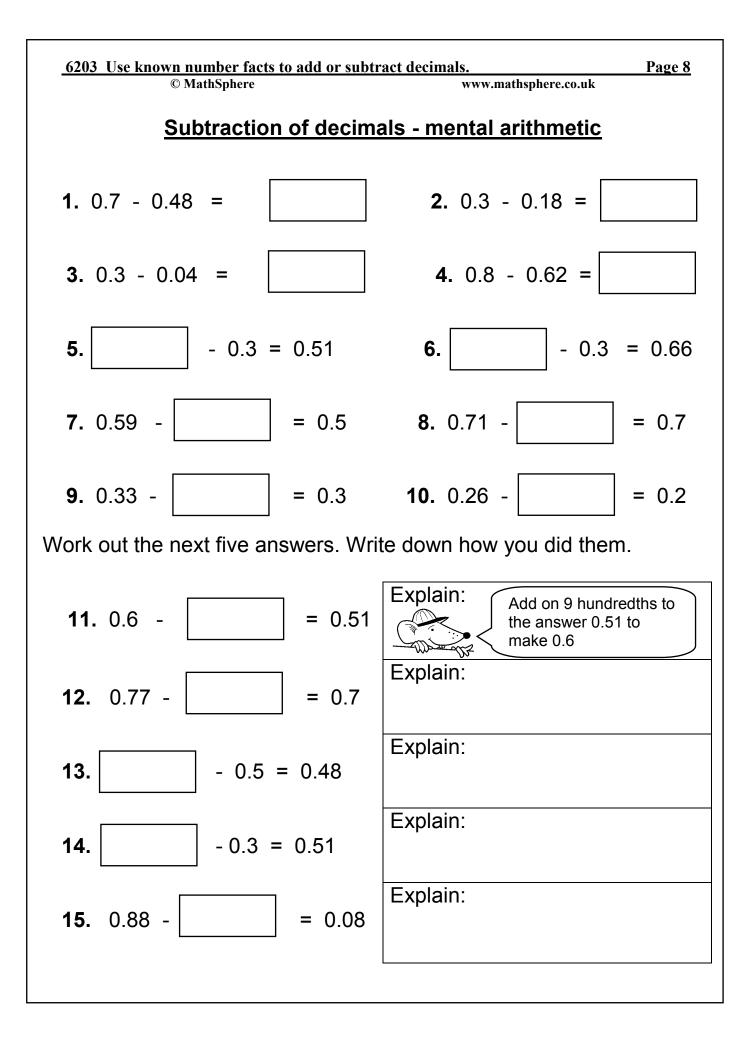


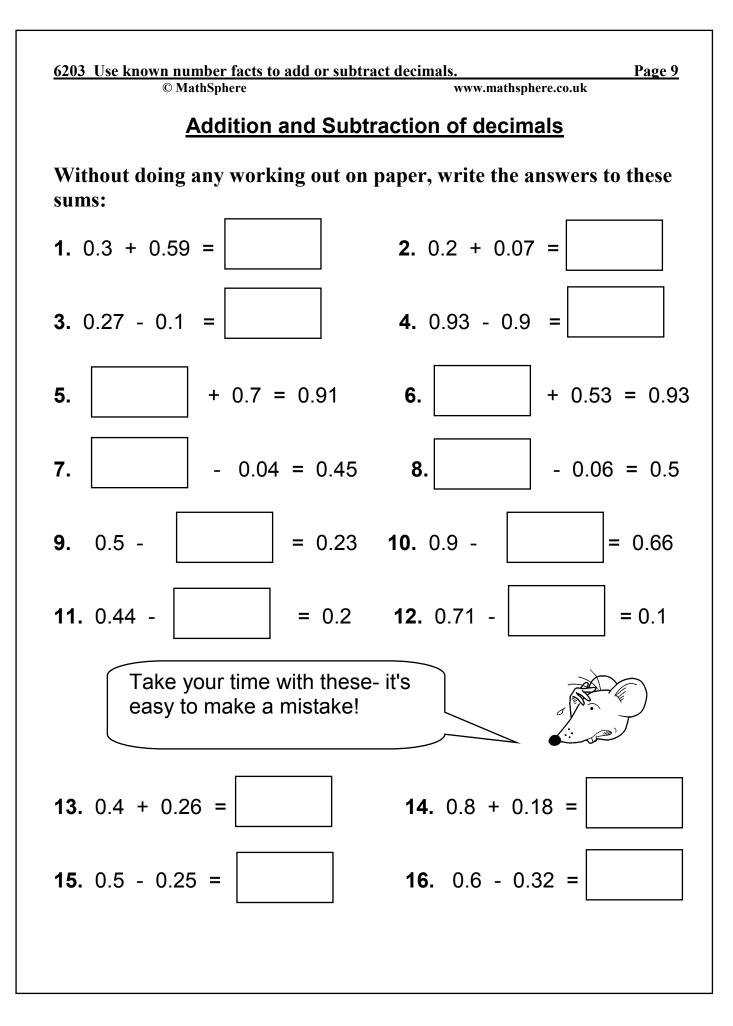
e.g. 0.2 - 0.01 = 0.19	Explain: 0.2 is the same as 0.20 . Subtract 0.01 from 0.20 is 0.19
13. 0.7 - 0.28 =	Explain:
14. 0.35 - 0.05 =	Explain:
15. 0.7 - 0.63 =	Explain:



e.g. 0.53 - 0.5 = 0.03	Explain: subtract the tenths,: 0.5 - 0.5, leaves 0.03 as the answer.
13. 0.6 - 0.17 =	Explain:
14. 0.98 - 0.09 =	Explain:
15. 0.4 - 0.11 =	Explain:







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Addition and Subtraction of decimals
Without doing any working out on paper, write the answers to these sums:
1. $0.5 + 0.38 =$ 2. $0.4 + 0.01 =$
3. 0.54 - 0.3 = 4. 0.78 - 0.6 =
5. + 0.4 = 0.68 6. + 0.71 = 0.88
7. - 0.06 = 0.32 8. - 0.08 = 0.7
9. 0.8 - $= 0.11$ 10. 0.7 - $= 0.44$
11. 0.22 - = 0.1 12. 0.99 - = 0.11
Nearly finished ? Consider yourself an expert decimal dude!
13. 0.8 + 0.12 = 14. 0.5 + 0.09 =
15. 0.7 - 0.18 = 16. 0.3 - 0.09 =

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Answers							
Page 3							
1. 0.84	2. 0.67	3. 0.97	4. 0.52	5. 0.79	6. 0.96	7. 0.86	8. 0.98
9. 0.69	10. 0.92	11. 0.98	12. 0.76	13. 0.77	14. 0.25	15. 0.56 v	with explanations
Page 4							
1. 0.87	2. 0.98	3. 0.88	4. 0.83	5. 0.46	6. 0.97	7. 0.77	8. 0.66
9. 0.65	10. 0.97	11. 0.64	12. 0.35	13. 0.82	14. 0.29	15. 0.72 wi	th explanations
Page 5							
1. 0.33	2. 0.11	3. 0.13	4. 0.48	5. 0.19	6. 0.46	7.0.18	8. 0.02
9. 0.81	10. 0.22	11. 0.35	12. 0.44	13. 0.42	14. 0.30		with explanations
Page 6 1. 0.14	2. 0.12	3. 0.28	4. 0.48	5. 0.27	6. 0.45	7.0.22	8. 0.28
1. 0.14 9. 0.84	10. 0.12	3. 0.28 11. 0.35	4. 0.48 12. 0.44	5. 0.27 13. 0.43	0. 0.43 14. 0.89		o. 0.28 with explanations
. 0.04	10. 0.22	11. 0.55	12. 0.44	15. 0.45	14. 0.09	13. 0.27	
Page 7							
1.0.26	2. 0.57	3. 0.19	4.0.32	5. 0.77	6. 0.81	7.0.47	8.0.30
9. 0.12	10. 0.07	11. 0.05	12. 0.28	13. 0.52	14. 0.76	15. 0.40	with explanations
Page 8							
1.0.22	2. 0.12	3. 0.26	4. 0.18	5. 0.81	6. 0.96	7. 0.09	8. 0.01
9. 0.03	10. 0.06	11.0.09	12. 0.07	13. 0.98	14. 0.81	15. 0.80	with explanations
Page 9							
1. 0.89	2. 0.27	3. 0.17	4. 0.03	5. 0.21	6. 0.40	7. 0.49	8. 0.56
9. 0.27	10. 0.24	11.0.24	12. 0.61	13. 0.66	14. 0.98	15. 0.25	16. 0.28
Page 10							
1. 0.88	2. 0.41	3. 0.24	4. 0.18	5.0.28	6. 0.17	7.0.38	8. 0.78
9. 0.69	10. 0.26	11. 0.12	12. 0.88	13. 0.92	14. 0.59	15. 0.52	16. 0.21