

DECIMALS

MNU 307-a

I can solve problems by carrying out calculations with a wide range of fractions, decimal fractions and percentages, using my answers to make comparisons and informed choices for real-life situations.

Pupils should be able to:

1. Arrange decimal numbers in order
2. Work with decimals to 2 decimal places
3. Mentally
 - a) add and subtract:
e.g. $7.3 + 8.2$
 - a) multiply and divide:
- e.g. 14.68×100
- e.g. $7.28 \div 1000$
4. With written working
 - a) add and subtract:
e.g. $12.3 + 4.9$
e.g. $6.7 - 2.83$
 - b) multiply and divide:
e.g. 14.25×3
e.g. $4.6 \div 8$
5. Apply the above in problems involving money and measurement
6. Round any number to nearest whole, 1 decimal place, etc
7. Check calculations by rounding and mental work

PUPILS SHOULD COMPLETE THE FOLLOWING EXERCISE AND ASSESS THEIR PROGRESS BY TICKING ONE OF THE OPTIONS FOR EACH TOPIC IN THE TABLE BELOW

	DEVELOPING	CONSOLIDATING	SECURE
Order decimal numbers (QUESTION 1)			
Mentally +, -, x, ÷ (QUESTION 2)			
+, -, x, ÷ with working (QUESTIONS 3 - 6)			
Rounding off (QUESTION 7 - 8)			
Estimating (QUESTION 9)			

mymaths lessons: library/number/decimals/any lessons

SELF EVALUATION EXERCISEDATE DUE _____

1. Put these decimal numbers in order from smallest to largest:
(a) 0.4 2.1 1.6 0.8 1.9
(b) 0.52 0.3 0.38 0.5 0.308 0.6
2. a) $8.6 + 7.3$ b) $14.5 + 5.7$ c) $9.7 - 3.2$ d) $18.9 - 0.6$ e) 54.42×10
f) 6.734×10 g) 342.7×100 h) 6.75×1000 i) $856.4 \div 100$ j) $72.45 \div 1000$
3. a) $4352 + 6543$ b) $8975 - 3267$ c) $10000 - 5467$
4. James the joiner has a 3.5 metre plank of wood. He cuts three pieces, 1.35 m, 97cm and 76 cm from it. What length of plank is left ?
5. Caitlin bought a caravan for £32 300. She sold it two years later, making a loss of £2460. For how much did Caitlin sell her caravan?
6. Kelly got £10 pocket money off her mum at the weekend. She spend £1.05 on a bottle of juice, £2.20 on a bag of popcorn and £4.40 on a cinema ticket. How much change did she have at the end of the day?
7. Round to the nearest whole number:-
a) 3.9 b) 2.36 c) 10.5 d) 209.7
8. Round the following to 1 decimal place:-
a) 4.43 b) 12.56 c) 132.59 d) 6.55
9. Estimate by first rounding the numbers to the nearest 10 or 100:-
a) 49×51 b) 314×78 c) 492×119 d) 187×18 e) 67×32