

# Countdown to your final Maths exam ...

## Part 3 (2019)

	Marks	Actual	  
Q1. Convert between fractions, decimals and %	2		
Q2. Fractions (Clips 14 and 15)	2		
Q3. Rounding (Clip 9)	1		
Q4. Use of Calculator (Clip 3)	3		
Q5. Fraction of an amount / Profit	4		
Q6. Convert between fractions, decimals and %	3		
Q7. Fractions (Clips 14 and 15)	4		
Q8. Rounding (Clip 9)	1		
Q9. Money problem solving	3		
Q10. Fraction of an amount	5		
Q11. Fractions (Clips 14 and 15)	3		
Q12. Use of Calculator (Clip 3)	3		
Q13. Error intervals (Clip 9)	2		
Q14. Rounding (Clip 9)	2		
Q15. Use of Calculator (Clip 3)	3		
Q16. Fractions (Clips 14 and 15)	4		
Q17. Fraction of an amount	4		

49

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Q1. Here are four numbers.

0.43       $\frac{3}{7}$       43.8%       $\frac{7}{16}$

Write these numbers in order of size.  
Start with the smallest number.

Q2. Work out  $\frac{3}{8} + \frac{1}{2}$

(2)

Q3. Write 7.264 51 correct to 3 decimal places.

(2)

(1)

Q4. Use your calculator to work out

(a)  $\sqrt[3]{42.875}$

(1)

(b)  $\frac{3.4 \times 5.2}{2.6 - 0.39}$

(2)

Q5. Sapir buys 60 bags. She pays £3 for each bag.

Sapir sells  $\frac{1}{2}$  of the bags for £5 each.

She sells  $\frac{1}{3}$  of the bags for £4 each.

Sapir wants to make a total profit of £75

How much should she sell each of the remaining bags for?

(4)

Q6. (a) Write these numbers in order of size. Start with the smallest number.

0.401      0.46      0.37      0.439

(1)

(b) Write these numbers in order of size. Start with the smallest number.

$\frac{2}{3}$       75%       $\frac{7}{8}$       0.25       $\frac{1}{2}$

(2)

Q7. (a) Work out  $\frac{2}{7} + \frac{1}{5}$

(2)

(b) Work out  $1\frac{2}{3} \div \frac{3}{4}$

(2)

Q8. Write 2549 correct to the nearest 10

(1)

Q9. Boxes of chocolates cost £3.69 each. A shop has an offer.

Ali has £50

He is going to get as many boxes of chocolates as possible.

How many boxes of chocolates can Ali get?

Boxes of chocolates

3 for the price of 2

(3)

Q10. Ravi buys some hats to sell at a school fete. He buys 40 hats for a total of £120

Ravi sells  $\frac{3}{4}$  of these hats at £4.50 each.

He reduces the selling price of the remaining hats to £4 each.

He sells half of the remaining hats at this selling price.

Work out the profit that Ravi makes.

(5)

Q11. Work out  $2\frac{3}{5} - 1\frac{5}{6}$

(3)

Q12. Work out the value of  $\frac{\sqrt{2.7 + 6.5}}{4.8 - 1.06}$  Give your answer correct to 2 decimal places.

(3)

Q13. The length,  $L$  cm, of a line is measured as 13 cm correct to the nearest centimetre.

Complete the following statement to show the range of possible values of  $L$

.....  $\leq L <$  ..... (2)

Q14. (a) Write 5643 to the nearest hundred.

(1)

(b) Write 197 768 to the nearest thousand.

(1)

Q15. (a) Use your calculator to work out  $\frac{43.2 + \sqrt{99.05}}{0.193}$

Write down all the digits on your calculator display.

(2)

(b) Write your answer to part (a) correct to 2 significant figures.

(1)

Q16. (a) Work out  $2\frac{1}{7} + 1\frac{1}{4}$

(2)

(b) Work out  $1\frac{1}{5} \div \frac{3}{4}$  Give your answer as a mixed number in its simplest form.

(2)

Q17. One day a supermarket has 8420 customers.

65% of the customers pay with a debit card.

$\frac{1}{5}$  of the customers pay with a credit card.

The rest of the customers pay with cash.

Work out how many customers pay with cash.

(4)