

## S1 Test 2: Numeracy Revision

| Prior                                                                                                                                                                                                                         | Core                                                                                                                                                                                                                                                                                           | Extension                                                                                                                                                                                                                                              |
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| 1. Round:<br>(a) 32 607 to the nearest thousand.<br>(b) 41.8 to the nearest whole number.                                                                                                                                     | 1. Round:<br>(a) 6.82 to 1 decimal place.<br>(b) 8.137 to 2 decimal places.                                                                                                                                                                                                                    | 1. Round:<br>(a) 2 945 to 2 significant figures.<br>(b) 0.0364 to 1 significant figure.                                                                                                                                                                |
| 2. Work out:<br>(a) $7100 - 2671$ (b) $458 \times 7$<br>(c) $2152 \div 8$ (d) $96 \times 10$<br>(e) $27 \times 100$ (f) $3250 \div 10$<br>(g) $172000 \div 100$                                                               | 2. Work out:<br>(a) $326 \times 60$ (b) $28 \times 900$<br>(c) $4200 \div 30$ (d) $13000 \div 200$                                                                                                                                                                                             | 2. Work out:<br>(a) $164 \times 32$ (b) $4511 \div 13$                                                                                                                                                                                                 |
| 3. Work out:<br>(a) $14.7 + 2.45$ (b) $8.41 - 3.9$<br>(c) $25.3 \times 6$ (d) $54.32 \div 4$<br>(e) $0.63 \times 10$ (f) $2.1 \times 100$<br>(g) $0.4 \times 1000$ (h) $75 \div 10$<br>(i) $54 \div 100$ (j) $13.2 \div 1000$ | 3. Work out:<br>(a) $1.28 + 3.6 \div 4$ (b) $8 \times (4.2 - 1.56)$<br>(c) $2.43 \times 70$ (d) $0.37 \times 800$<br>(e) $1.52 \times 9000$ (f) $5 \times 7.9 \times 200$<br>(g) $64.8 \div 30$ (h) $96 \div 400$<br>(i) $29.4 \div 2000$ (j) $5.7 \div 2$<br>(k) $3.8 \div 5$ (l) $21 \div 4$ | 3. Work out:<br>(a) $0.25 \times 0.7$ (b) $54 \div 0.6$                                                                                                                                                                                                |
| 4. Write 0.6 as a fraction in simplest form.<br>5. Write $\frac{9}{100}$ as a decimal.                                                                                                                                        | 4. Write 0.35 as a fraction in simplest form.<br>5. Write these fractions as decimals:<br>(a) $\frac{1}{4}$ (b) $\frac{2}{5}$                                                                                                                                                                  | 4. Write 0.012 as a fraction in simplest form.<br>5. Write these fractions as decimals:<br>(a) $\frac{7}{8}$ (b) $\frac{2}{3}$                                                                                                                         |
| 6. Write 9% as a: (a) fraction<br>(b) decimal.<br>7. Write 80% as a:<br>(a) fraction in its simplest form<br>(b) decimal.                                                                                                     | 6. Write 2.5% as a:<br>(a) fraction in its simplest form<br>(b) decimal.<br>7. Work out:<br>(a) 25% of 320                      (b) $66\frac{2}{3}\%$ of 24<br>(c) 30% of £45                      (d) 7% of 4000                                                                              | 6. A shop gives 5% discount during a sale.<br>Calculate the sale price of a television normally priced £560.<br>7. In 1970 the population of Newton was 3200. By 2010 the population had increased by 15%. Calculate the population of Newton in 2010. |

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| 8. Write $\frac{24}{36}$ in its simplest form.<br>9. Work out:<br>(a) $\frac{3}{8}$ of 48      (b) $\frac{2}{9}$ of 36 | 8. Work out: (a) $\frac{5}{8} + \frac{1}{4}$ (b) $\frac{2}{3} - \frac{1}{9}$            | 8. Work out: (a) $\frac{3}{5} + \frac{1}{4}$ (b) $\frac{5}{6} - \frac{2}{9}$<br>(c) $\frac{5}{8} \times \frac{6}{11}$ (d) $\frac{3}{4} \div \frac{7}{10}$ |
| 10. Work out the value of (a) $4^2$ (b) $9^2$ .                                                                        | 9. Work out the values of<br>(a) $3^3$ (b) $7^1$ (c) $5^0$ (d) $6^{-2}$ (e) $\sqrt{49}$ | 9. Work out : (a) $-3 + 7$ (b) $6 - 13$<br>(c) $-2 + (-8)$ (d) $-1 - (-5)$                                                                                |

### Answers

| Prior                                                                                               | Core                                                                                                                    | Extension                                                                          |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1. (a) 33 000 (b) 42                                                                                | 1. (a) 6.8 (b) 8.14                                                                                                     | 1. (a) 2 900 (b) 0.036                                                             |
| 2. (a) 4429 (b) 3206 (c) 269 (d) 960<br>(e) 2700 (f) 325 (g) 1720                                   | 2. (a) 195600 (b) 25200 (c) 140 (d) 65                                                                                  | 2. (a) 5248 (b) 347                                                                |
| 3. (a) 17.15 (b) 4.51 (c) 151.8 (d) 13.58<br>(e) 6.3 (f) 210 (g) 400 (h) 7.5<br>(i) 0.54 (j) 0.0132 | 3. (a) 2.18 (b) 21.12 (c) 170.1 (d) 296<br>(e) 13680 (f) 7900 (g) 2.16 (h) 0.24<br>(i) 0.147 (j) 2.85 (k) 0.76 (l) 5.25 | 3. (a) 0.175 (b) 90                                                                |
| 4. $\frac{3}{5}$ 5. 0.09                                                                            | 4. $\frac{7}{20}$ 5. (a) 0.75 (b) 0.4                                                                                   | 4. $\frac{3}{250}$ 5. (a) 0.875 (b) $0.\dot{6}$                                    |
| 6. (a) $\frac{9}{100}$ (b) 0.09      7. (a) $\frac{4}{5}$ (b) 0.8                                   | 6. (a) $\frac{1}{40}$ (b) 0.025<br>7. (a) 80 (b) 16 (c) £13.50 (d) 280                                                  | 6. £532<br>7. 3680                                                                 |
| 8. $\frac{2}{3}$ 9. (a) 18 (b) 8                                                                    | 8. (a) $\frac{7}{8}$ (b) $\frac{5}{9}$                                                                                  | 8. (a) $\frac{17}{20}$ (b) $\frac{11}{18}$ (c) $\frac{15}{44}$ (d) $\frac{11}{14}$ |
| 10. (a) 16 (b) 81                                                                                   | 9. (a) 27 (b) 7 (c) 1 (d) $\frac{1}{36}$ (e) 7                                                                          | 9. (a) 4 (b) -7 (c) -10 (d) 4                                                      |