

Answers

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Number

Integers, decimals and symbols

- a 200.1 b 2,001 c 2.3 d 57
- a 140.94 b 1×10^4 c 200 d -1.86
- a 0.5, 0, 0.002, 0.12, 12
- a $\frac{7}{0.5} = 14$ b $1\frac{5}{9} > \frac{4}{9}$ c $-3 < -1$
- a 5 c 15 e 7
b -8 d 8

Addition, subtraction, multiplication and division

- a 1561 c 50.03
b 3047 d 23.923
- a 2910 c 5.105
b 767 d 5.401
- a 20708 b 20.28 c 40,768
- a 48 b 347 c 25.4

Using fractions

- a $\frac{5}{6} = \frac{10}{12}$ c $\frac{2}{3} = \frac{8}{12}$ e $\frac{1}{6} = \frac{2}{12}$
b $1\frac{1}{6} = \frac{7}{6}$ d $4\frac{2}{3}$ e $2\frac{2}{3}$
- a $\frac{15}{10} = \frac{3}{2}$ b $\frac{3}{2}$
- a $\frac{1}{2}$ b $\frac{3}{2}$
- a $\frac{1}{2}$

Different types of number

- a 16 b 4 c 40
- $2 \times 2 \times 3 \times 5 \times 5$
- every 1.44 days
- a $2^3 \times 3^2 \times 7$ b 36

Listing strategies

- 17 2 165

The order of operations in calculations

- a 15 b 13 c 25
- a 10 b 23 c 9

Indices

- a 2^4 b 3^2 c 9^2
- a 5^2 c $2^3 \times 5^2$
b 5^{12} d $3^2 \times 4 \times 5^2$
- a 1 c 18 e 36
b 10 d $\frac{1}{5}$ or 0.2
- $2 - 1$

Sums

- a $\sqrt{2}$ b 3 c 15 d 25
- a -7
- a $3\sqrt{5}$ b $6\sqrt{2}$
- a $\frac{12}{30} = \frac{200}{5000} = \frac{250}{625} = \frac{50}{125}$ b 5 c 27
- a -4 b $7 + 4\sqrt{3}$ c $5 + 3\sqrt{3}$

Standard form

- a 0.005 b 500,000
- a 2.5×10^4 c 3×10^2
b 1.25×10^{-2} d 1.4×10^{-4}
- a 5×10^{-2} c 2×10^2
b 2.4×10^2 d 5.04×10^4
- a 1.33×10^{-4} pounds
b 28,600,000 people
- a 1.55×10^4 c 5×10^2
b 655,000 d 4×10^2

Converting between fractions and decimals

- a 0.45 b 0.775 c 0.55
- a $\frac{5}{21}$ b $\frac{5}{21}$ c $\frac{15}{28}$
- a $\frac{5}{8}$ b $\frac{5}{16}$ c $\frac{5}{32}$
- a $\frac{11}{25}$ b $\frac{11}{25}$
- 1

Converting between fractions and percentages

- a $\frac{1}{2}$ b $\frac{21}{25}$ c $\frac{1}{10}$
- maths 81.25%
Charlie did better at maths.
- a 28% b 16% c 42.8%

Fractions and percentages as operators

- a 400 b 14,50 c 75kg
- School A: 336, School B: 700

Standard measurement units

- a 0700c b 0.25 litres c 200,000cm
- 8.64×10^4 seconds
- 281.60

Rounding numbers

- a 1200 c 0.000308 e 1.95×10^{-4}
b 14.9 d 9089,000
- a 59.5 c 0.03 e 0.002
b 123,907 d 3.971 f 4.10
- a 7000 b 7000 c 1993
- 0.0004 (4 decimal places)

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IM Harris



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