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Answers: New GCSE Maths Edexcel Modular Homework Book Higher 1

Answers Homework Book Edexcel Modular Higher 1

1 Number: Number skills and properties

1.1 Solving real-life problems

HOMEWORK 1A

- 1 $25 \times 12 = 300 + 60 (20\%) = 360$. He buys 354 tiles, so he has enough.
- 2 No. $£30 + 85p = 35.25$, so she can buy 35 packets of balloons, which is only 875.
- 3 Yes, the shop covers its costs, as 10% is $£11$, so $£110 + £11 = £121$ per TV. Retail is $£3.50 \times 40$ weeks = $£140$ ($£140 - £110 = £30$ profit per TV).
- 4 27
- 5 £728
- 6 No. $860 \div 15 = 57.333...$ weeks, which is more than one year. Or: $£860 \div 52 = £16.54$ per week to save enough for one year. Or: $£15 \times 52$ weeks = $£780$ saved in a year. $£860 - £780 = £80$ short. $£15 \div 5.233...$ more weeks to save.
- 7 £2964
- 8 Maya earns £60 each week. Neil earns £210 each week. Maya will need to work for four weeks to earn over £210.
- 9 No, Mary is £30 short. She has enough money for only three presents. $£204 \div 25 = £8.16$ per person per ticket. Mary has $£150 - £14 = £136$. $£136 \div £1.25 = £109$.

10 1538

11 23

12 a £1000

b £212

13 a 28 m²

b £10.71

14 28

15 Computing over one year: $52 \times 38 = 1976$. $12 \times 150 = 1800$.

So book is decreasing.

1.2 Approximation of calculations

HOMEWORK 1B

- 1 a 50 000 b 60 000 c 30 000 d 90 000 e 90 000
f 50 g 90 h 30 i 100 j 200
k 0.5 l 0.3 m 0.006 n 0.05 o 0.0009
p 10 q 90 r 90 s 200 t 1000
- 2 Holiday: 850 to 949. Hook: 945 to 954. Handout: 1045 to 1054.
3 a £700 b 38 000 c 69 000 d 42 000 e 27 000
f 7000 g 2200 h 960 i 440 j 330
4 a 50 000 b 6000 c 89.7 d 220 e 8
f 1.1 g 730 h 6000 i 57 j 6
k 8 l 9.75 m 25 n 30 o 0.070
p 40 q 0.085 r 0.0099 s 0.08 t 0.0620
- 5 95 or 96
- 6 $100 - 549 = 101$
- 7 83