Year 6 maths answers	5 A Day WEEK 6
DAY 1	DAY 2
1. 4200	1. 161,394
2. 1300	2. 150
3. 1170	3. 818
4. 50.922	4. 21/4 = 5 1/4
5. 5/15 = 1/3	5. 356 r 6
DAY 3	DAY 4
1. 2815	1. 14382
2. 800	2. 150
3. 40	3. 4/3 = 11/3
4. 7395	4.90
5. 1.22	5. 396 r 7

- DAY 5
- 1. 210
- 2. 2.55
- 3. 131,481
- 4. 11.895
- 5. 3815

Practice answers

- The height of a door could be measured in Ρ1 metres (m) or centimetres (cm). The volume of water in a glass would be measured in millilitres (ml). The length of a pencil point would be measured in millimetres (mm). The mass of a person would be measured in kilograms (kg). The length of a reading book would be measured in centimetres (cm). The mass of a rubber would be measured in grams (g). P 2
 - a) An elephant weighs approximately 5 tonnes.
 - b) An drinking glass holds approximately 0.21.
 - c) A man has a height of approximately 1.8m.

2)

3		
	g	kg
	1500	1.5
	800	0.8
	3010	3.01
	2950	2.95

kg	tonnes	
7000	7	
1500	1.5	
900	0.9	
4080	4.08	

Ρ4

ml	L
7500	7.5
950	0.95
65	0.065
1990	1.99

		Ρ	5	
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Ρ

mm	cm	m	km
200 000	20 000	200	0,2
412 000	41 200	412	0.412
1 100 000	110 000	1100	1.1

P 6

Mr Smith needs to fill buckets of water. A large bucket holds 6 litres and a small bucket holds 4 litres. If a jug holds 250 ml and a bottle holds 500 ml suggest some ways of using the jug and bottle to fill the buckets. There will be multiple ways to solve this. Here are some.

Small bucket:

- 2 bottles and 12 jugs
- 6 bottles and 4 jugs

Large bucket:

- 8 bottles and 8 jugs
- 6 bottles and 12 jugs

Evidence answers

- ARE 1 30 x 85m = 2550m or 2.5km Daniel walks approximately 2500m or 2.5km to primary school. To estimate the distance to his brother's secondary school: 2.5 × 9 = 22.5km
- ARE 2 Assuming no rest breaks are taken. All answers are approximations only.
 - a) 30km
 - b) 120km
 - c) 840km
 - d) 43 800km

ARE 3 a) True. 1.7km and 1.700km show the same amount in km and 1700m is equal to 1.7km.

b) False. 10 001g < 10.1kg < 0.1 tonnes

ARE 4

0.111 = Bottle D
 0.91 = Bottle E
 150ml = Bottle B
 0.251 = Bottle A
 775ml = Bottle C

ARE 5

2) a) Mass of one box: 2.35g x 38 = 89.3g Mass of 30 boxes: 2.679kg

ARE 6

Finlay has a piece of string which measures 0.9m. He cuts off a piece measuring 15cm and then cuts the remaining string into three equal pieces. How long is each piece?

25cm or 0.25m

ARE 7			
Mo cycles 45 miles over the course of 3 days.	On day 1 he cycles 16 km / 10 miles.		
On day 1, he cycles 16 km.			
On day 2, he cycles 10 miles further than he did on day 1	On day 2 he cycles 32 km / 20		
How far does he cycle on day 3?	rines.		
Give your answer in miles and in kilometres.	On day 3 he cycles 24 km / 15 miles.		
ARE 8			
The distance between Cardiff and London is 240 km.	24 mi 15	0 km ≈ les 0 ÷ 60	$150 = 2\frac{1}{2}$
A car is travelling at 60 mph.	ho	urs	
How long will it take them to get to London from Cardiff?	6C 24 ho) miles ≈ 0 ÷ 96 urs	= 96 km $= 2\frac{1}{2}$

ARE 9

Chen, Megan and Sam have parcels.	Megan's = 1.2kg
Megan's parcel weighs 1.2kg and Chen's	Chen's = 1.5kg
parcel is 1500g and Sam's parcel is half the weight of Megan's parcel. Write down some	Sam's = 0.6kg
other statements about the parcels. How much heavier is Chen's parcel than Megan's?	Chen's weighs 300g more than Megan's. Other statements could include: Chen's parcel is 1½ times heavier than Sam's or Sam's weighs 0.6kg less than Megan's.



A square has the perimeter of 12 cm. When 4 squares are put together, the perimeter of the new shape can be calculated. For



example:

What arrangements will give the maximum perimeter?



- 1) 42cm (A) + 22.5cm (B) + 47.5cm (C) = 112cm
- 2) 35cm (A) + 22.5cm (B) + 47.5cm (C) = 105cm

3) Various answers are possible to make a total length of 220cm.
For example:
Parcel D height of 500mm + parcel E length of 0.85m + parcel F length of 850mm = 2.2m
Parcel D height of 500mm + parcel E height of 50cm + parcel F height of 1.2m = 2.2m
Parcel D height of 400mm + parcel E length of 0.9m + parcel F length of 900mm = 2.2m

