

Mathematics

Level 2



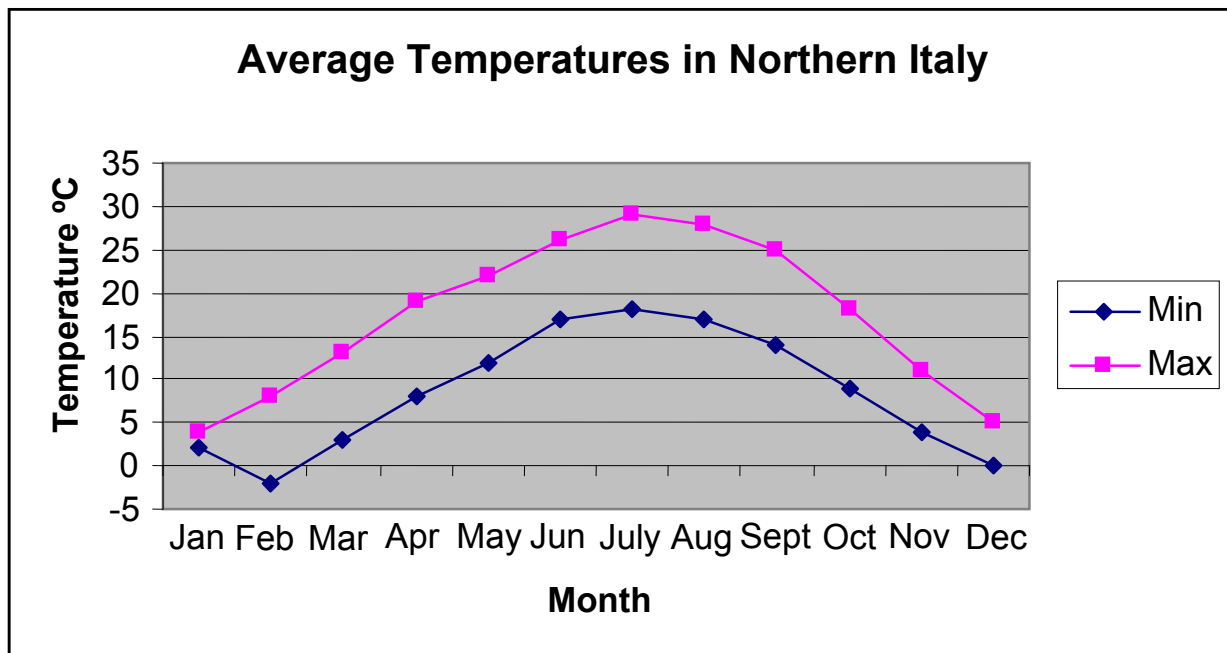
Functional Skills Practice Assessment 1

Holiday in Italy Answers

- 1) a) £272.00
- $$\begin{aligned} & \pounds 7 + \pounds 20.63 + \pounds 7 + \pounds 17.92 = \pounds 52.55 \\ & \pounds 52.55 \times 4 = \pounds 210.20 \\ & \pounds 28.60 \times 2 = \pounds 57.20 \\ & \pounds 4.60 \times 1 = \pounds 4.60 \\ & \pounds 210.20 + \pounds 57.20 + \pounds 4.60 = \pounds 272.00 \end{aligned}$$
- 4 marks**
- b) £68.00
- $$\pounds 272.00 \div 4 = \pounds 68.00$$
- 1 mark**
- c) £7.15
- $$\pounds 28.60 \div 4 = \pounds 7.15$$
- 1 mark**
- 2) a) 8.15 a.m.
- $$2\frac{1}{2} \text{ hr} + 1 \text{ hr} = 3\frac{1}{2} \text{ hr}$$
- You must be at the security gate at least 30 minutes before take-off – i.e. 11.45
- $$11.45 - 3\frac{1}{2} \text{ hrs} = 08.15$$
- 2 marks**
- b)
- Home to airport security gate $3\frac{1}{2}$ hrs
- Waiting $1\frac{1}{4}$ hrs
- Flight $2\frac{1}{4}$ hrs
- Airport to hotel 1 hr
- Total time 8 hrs** **5 marks**
- c) $\frac{1}{8}$
- Airport to hotel = 1 hour
- Total time = 8 hours therefore $\frac{1}{8}$ **1 mark**
- d) 12.5% 0.125 **2 marks**
- e) 14:5:9:4
- $$3\frac{1}{2} : 1\frac{1}{4} : 2\frac{1}{4} : 1 = 14:5:9:4$$
- 2 marks**

- 3) a) Yes $8.700 \text{ kg} + 425 \text{ g} + 395 \text{ g} = 9.520 \text{ kg}$
Still under target of 9.8 kg **2 marks**
- b) 22 lb $1 \text{ kg} = 2.2 \text{ lb}$
 $10 \text{ kg} = 22 \text{ lb}$ **2 marks**
- 4) a) €176 4-day car hire (2 half days and 3 full days)
= £151.36
 $£151.36 \div 0.86$
= 176 euros **1 mark**
- b) €47.85 Travel
 $12 + 18 + 71 + 69 + 155 + 12$
= 337 km **1 mark**
- $337 \text{ km} \div 24.62$
= 13.69 litres of fuel used **1 mark**
- Diesel is 1.125 euros per litre
 $13.69 \text{ litres} = 13.69 \times 1.125$
= 15.40 euros **1 mark**
- 4- day car hire (2 half days and 3 full days)
= 176.00 euros
 $176 + \text{fuel } 15.40$
= 191.40 euros **1 mark**
- Divided between 4 people
 $191.40 \div 4$
= 47.85 euros **1 mark**

- 5) a) No $26\text{ }^{\circ}\text{C} - 17\text{ }^{\circ}\text{C} = 9\text{ }^{\circ}\text{C}$ **1 mark**
- b) $31\text{ }^{\circ}\text{C}$ $-2\text{ }^{\circ}\text{C} \text{ to } 29\text{ }^{\circ}\text{C} = 31\text{ }^{\circ}\text{C}$ **1 mark**
- c) 82 mm $61 + 59 + 71 + 85 + 98 + 81 +$
 $68 + 82 + 81 + 116 + 106 + 76 = 984$
 $984 \div 12 = 82$ **2 marks**
- d) 81 mm **1 mark**
- e) The graph should have meaningful titles and labels.



Titles: **3 marks**
 X axis categories **1 mark**
 Y axis values **1 mark**
 Data correct **2 marks**
 Legend: **1 mark**

41 marks in total