Worksheet - Time and money

Year: Year 4 · 20

Show your working.

Question 1

Question 1 – Reading clocks *(Section A · Practice)*

Write each time shown on the clocks as a digital time and in words. Then write each time on the 24-hour clock, if it is an afternoon time (pm).

a. The first clock shows the time in the morning:



b. The second clock shows the time in the afternoon:



c. The third clock shows the time in the evening:



d. The fourth clock shows the time in the afternoon:



Question 2

Question 2 – 12-hour and 24-hour clock *(Section A · Practice)*

Change each time between the 12-hour clock and the 24-hour clock.

a. 6:20 pm
b. 11:05 pm
c. 12:00 am (midnight)
d. 17:45
e. 20:15
f. 00:35

Question 3

Question 3 – Units of time *(Section A · Practice)*

Change each measure of time into the unit shown.

a. 4 minutes into seconds
b. 3 hours into minutes
c. 240 seconds into minutes
d. 5 weeks into days
e. 2 years into months
f. 135 minutes into hours and minutes

Question 4

Question 4 – How long does it take? *(Section A · Practice)*

Work out how long each activity takes. Draw a time line to help you.

a. A lesson starts at 09:20 and finishes at 11:05.
b. A football match starts at 13:45 and finishes at 15:10.
c. A train leaves at 10:50 and arrives at 12:30.
d. A play starts at 4:15 pm and ends at 6:00 pm.

Question 5

Question 5 – Adding money *(Section A · Practice)*

Work out each total. Line up the decimal points to help you.

a. £2.45 + £3.20
b. £5.60 + £1.85
c. £12.75 + £6.50
d. £0.95 + £2.30 + £1.45

Question 6

Question 6 – Change from £10 and £20 *(Section A · Practice)*

Work out the change for each purchase. Count on from the price to the amount paid.

a. A comic costs £3.65. Paid with £5.
b. A lunch costs £6.40. Paid with £10.
c. A football costs £13.75. Paid with £20.
d. A bag costs £8.99. Paid with £10.

Question 7

Question 7 – Bus timetable *(Section B · Real-life practice)*

Here is part of the timetable for the Number 12 bus from the town centre to the beach.

Stop	Bus 1	Bus 2	Bus 3
Town centre	08:15	09:35	11:05
Library	08:32	09:52	11:22
Park	08:50	10:10	11:40
Beach	09:10	10:30	12:00

a. How long does Bus 1 take from the town centre to the beach?
b. Mia arrives at the library at 09:45. Which bus can she catch? How long must she wait?
c. Ben takes Bus 3 to the beach. How long does the journey from the library to the beach take?
d. Do all three buses take the same time between the town centre and the beach? Explain.

Question 8

Question 8 – Television evening *(Section B · Real-life practice)*

The Barker family looks at the television guide for Saturday evening.

Programme	Start	Finish
Quiz show	17:30	18:15
News	18:15	18:30
Cooking contest	18:30	19:45
Film	19:45	21:35

a. How long is the quiz show?
b. How long is the cooking contest?
c. How long is the film? Write the answer in hours and minutes and in minutes only.
d. Dad wants to start watching the quiz show and watch until the end of the film. How long is that altogether?

Question 9

Question 9 – The school day *(Section B · Real-life practice)*

Class 4 timetable: school starts at 08:50. Registration lasts 10 minutes. Lesson 1 lasts 55 minutes, then break for 15 minutes. Lesson 2 lasts 1 hour and then lunch is at 12:00.

a. At what time does registration finish?
b. At what time does Lesson 1 finish?
c. At what time does break finish?
d. Lesson 2 starts when break finishes. At what time does it finish? How long is it

before lunch?

Question 10

Question 10 – At the cafe *(Section B · Real-life practice)*

The Sunshine Cafe menu is shown. Amy, Ben and Cara each order something.

Item	Price
Hot chocolate	£2.45
Orange juice	£1.60
Toasted sandwich	£3.85
Slice of cake	£2.20
Fruit salad	£2.95

a. Amy has a hot chocolate and a slice of cake. How much does she pay?
b. Ben has an orange juice and a toasted sandwich. How much does he pay?
c. Cara has a fruit salad and an orange juice. She pays with a £5 note. How much change does she get?
d. What is the total cost of all three orders?

Question 11

Question 11 – Birthday party *(Section B · Real-life practice)*

Zainab plans her birthday party. She has £40 to spend. A pizza costs £7.50, a pack of 6 balloons costs £2.25, a cake costs £12.99 and a pack of party bags costs £8.49.

a. She buys 2 pizzas. How much do they cost?
b. She buys 3 packs of balloons. How much do they cost?
c. What is the total cost of the pizzas, the balloons, the cake and the party bags?
d. How much of her £40 is left?

Question 12

Question 12 – Train journey *(Section B · Real-life practice)*

The Hassan family go to London by train. They use the 24-hour clock for the timetable. The train leaves Leeds at 09:52 and arrives in London at 12:17.

a. How long does the journey take?
b. They arrive in London 8 minutes late. At what time do they arrive?
c. A return ticket costs £42.50 for an adult. Mum and Dad each buy a ticket. How much do they pay?
d. A child ticket costs half the adult price. How much is a child ticket? What is the total cost for 2 adults and 1 child?

Question 13

Question 13 – Pocket money *(Section B · Real-life practice)*

Ali gets £3.50 pocket money each week. He saves some of it and spends the rest. Over 4 weeks he saves £1.20 each week.

a. How much pocket money does Ali get in 4 weeks?
b. How much does he save in 4 weeks?
c. How much does he spend in 4 weeks?
d. Ali wants to buy a football costing £11.50. After how many weeks will he have saved enough?

Question 14

Question 14 – Swimming lessons *(Section B · Real-life practice)*

Layla goes to swimming lessons. Each lesson lasts 45 minutes and starts at 16:15. A lesson costs £6.50. There are 8 lessons in a course.

a. At what time does a lesson finish?
b. How much does the whole course cost?
c. The course has a 10% discount: it costs £5 less. What does the course cost after the discount?
d. The lessons are on Mondays. If the first lesson is on 4 November, on which dates are the next three lessons?

Question 15

Question 15 – School trip to the science museum *(Section C · Problem solving)*

Class 4 is going to the science museum. The coach leaves school at 09:15 and the journey takes 1 hour 50 minutes. The class stays at the museum for 4 hours 25 minutes and then drives back, taking the same time. There are 28 children and 4 adults. A child ticket costs £5.50 and an adult ticket costs £8.25. The coach costs £150 in total.

a. At what time does the coach arrive at the museum?
b. At what time does the coach leave the museum to return to school? At what time does it arrive back at school?
c. How much do all the tickets cost?
d. Each child pays an equal share of the cost of the coach and the adult tickets. The school pays for the child tickets. How much does each child pay? (Coach £150 + adult tickets, shared between 28 children.)
e. Parents collect the children from school at 17:30. Is the coach back in time? How many minutes are there to spare?

Question 16

Question 16 – Market stall *(Section C · Problem solving)*

Dev has a stall at the Sunday market from 09:00 until 15:30. He sells fruit. The table shows his sales and costs.

Fruit	Price per bag	Bags sold	Cost to Dev per bag
Apples	£2.50	24	£1.60
Pears	£3.00	18	£1.90
Plums	£3.50	12	£2.20

a. How long is Dev at the market?
b. How much money does Dev take for each fruit?
c. What is the total money Dev takes?
d. The total cost to Dev of all the bags is £38.40 + £34.20 + £26.40. How much is that?
e. What is Dev's profit (money taken minus cost)?

Question 17

Question 17 – Holiday plans *(Section C · Problem solving)*

The Evans family are going on holiday to Cornwall for 8 days. The table shows the costs. They leave on Saturday 12 July.

Item	Cost
Cottage for 8 days	£36.50 per day
Petrol	£48.75 in total
Food	£22.40 per day
Entry to attractions	£67.00 in total

a. How much does the cottage cost for 8 days?
b. How much does the food cost for 8 days?
c. What is the total cost of the holiday?
d. On which day of the week and date do they come home? (They come home on the 8th day after leaving.)
e. They have saved £700 for the holiday. How much money is left?

Question 18

Question 18 – Cinema evening *(Section C · Problem solving)*

Four friends go to the cinema. The film starts at 18:40 and the adverts last 15 minutes before the film. The film is 1 hour 52 minutes long. Tickets cost £6.75 each and a large popcorn to share costs £5.00.

a. At what time does the film itself start, after the adverts?
b. At what time does the film end?
c. What is the total cost of 4 tickets and 1 popcorn?
d. Each friend pays an equal share. How much does each friend pay?
e. The last bus home leaves at 21:10. Do the friends catch it if it takes 10 minutes to walk to the bus stop? Explain.

Question 19

Question 19 – Concert planning *(Section C · Problem solving)*

The school choir is performing a concert in the hall. The concert starts at 19:00 and has 3 parts. Part 1 lasts 35 minutes. There is an interval of 20 minutes. Part 2 lasts 40 minutes and Part 3 lasts 25 minutes. Tickets cost £3.50 for adults and £2 for children. 85 adults and 120 children come to the concert.

a. At what time does Part 1 end? At what time does Part 2 start?
b. At what time does the concert finish?
c. How much money do the adult tickets bring in?
d. How much money do the children's tickets bring in? What is the total?
e. The school spent £175 on the concert. How much money did it raise after paying costs?

Question 20

Question 20 – Challenge: coin puzzle *(Section D · Challenge)*

Ella has a lot of 50p, 20p and 10p coins. She wants to make exactly £1 using only these three kinds of coins.

a. Find all the different ways to make £1. Use a table to organise your answers.
b. Which way uses the fewest coins? How many coins is that?
c. Which way uses the most coins? How many?