ME3-14 Digital Clocks

Digital clocks show both the hours and the minutes with two digits. The digital clock shows that 5 minutes have passed after 3 o'clock.

We say the time is 3:05 or 5 minutes past 3.

1. Write the time in numbers.

a) 

2:17

b) 

12:20

c) 

01:03

2. Write the time in words and numbers.

a) 

15 minutes past 7

b) 

20 minutes past 10

c) 

23 minutes past 1

d) 

35 minutes past 8

e) 

40 minutes past 2

f) 

9 minutes past 6

3. Write the time the way it looks on a digital clock.

a) 7:01

0	7	:	0	1

b) 4:15

0	4	:	1	5

c) 3:08

0	3	:	0	8

d) 4 minutes past 9

0	9	:	0	4

e) 12 minutes past 12

1	2	:	1	2

f) 9 minutes past 11

1	1	:	0	9

g) 23 minutes past 2

0	2	:	2	3

h) 30 minutes past 6

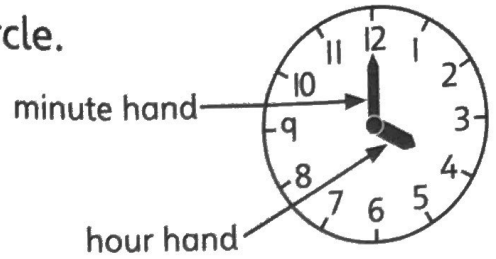
0	6	:	3	0

i) 1 minute past 2

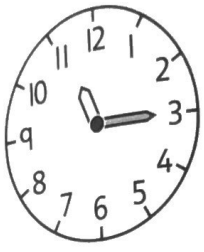
0	2	:	0	1

ME3-15 Analog Clock Faces and Hands

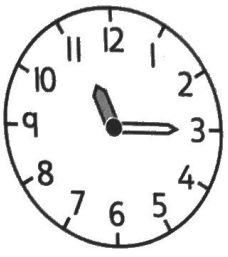
Analog clock faces show numbers from 1 to 12 in a circle.
An analog clock has different hands.
The **hour hand** is shorter.
The **minute hand** is longer.



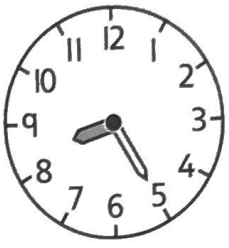
1. Which hand is shaded, the hour hand or the minute hand?

a) 

hour (minute)

b) 

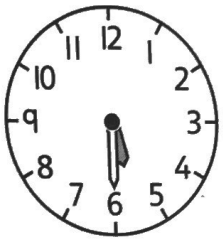
(hour) minute

c) 

(hour) minute

d) 

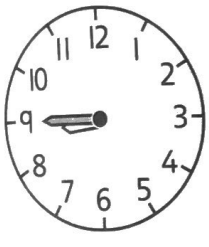
hour (minute)

e) 

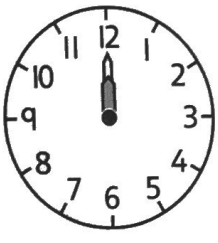
(hour) minute

f) 

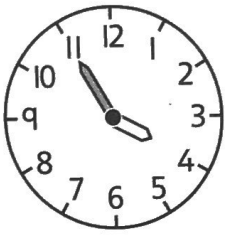
hour (minute)

g) 

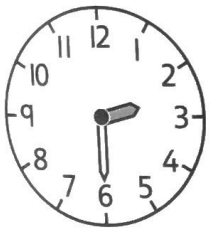
hour (minute)

h) 

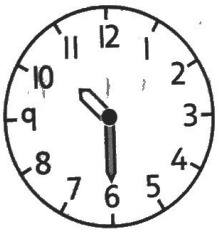
(hour) minute

i) 

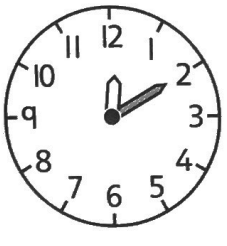
hour (minute)

j) 

(hour) minute

k) 

hour (minute)

l) 

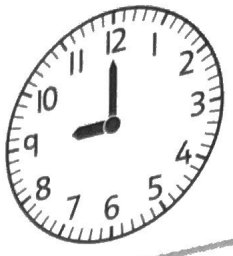
hour (minute)

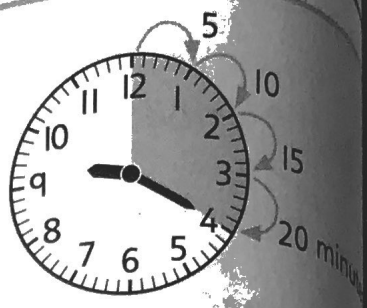
2. How is an analog clock face the same as a number line? How is it different from a number line?

ME3-16 The Minute Hand

When the minute hand moves from one number on the clock face to the next, 5 minutes have passed.

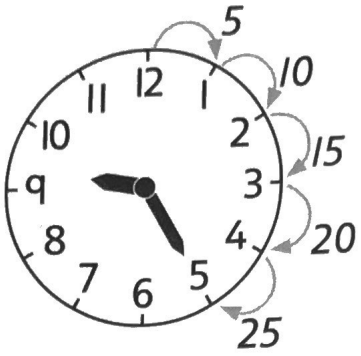
How many minutes is it past 9:00? Count by 5s.





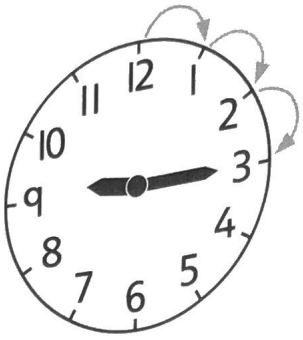
1. How many minutes is it past 9:00? Count by 5s.

a)



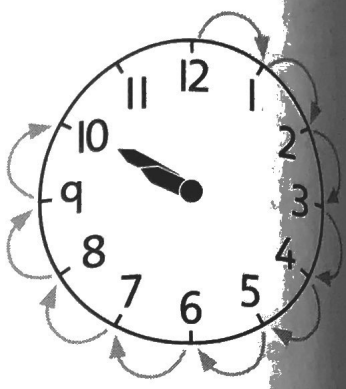
25 minutes

b)



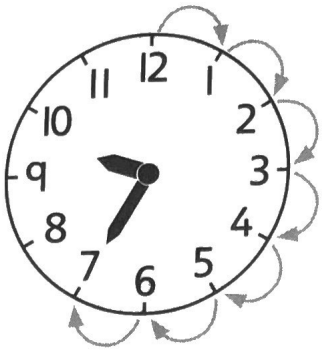
15 minutes

c)



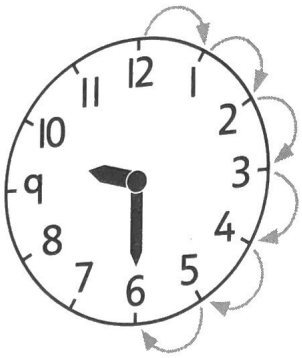
50 minutes

d)



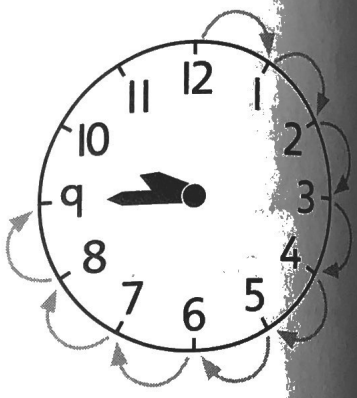
35 minutes

e)



30 minutes

f)



45 minutes

2. Rob thinks that the time is 9:05 because the minute hand points at 5.

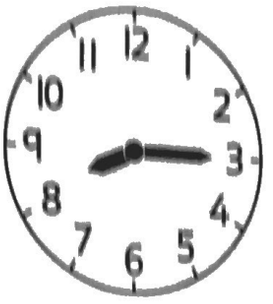
Explain his mistake. you have to count by 5's, so it is actually 9:25.

REMINDER ▶ The minute hand is the longer hand.

3. Circle the minute hand. Then count by 5s to write the minutes.

a) 

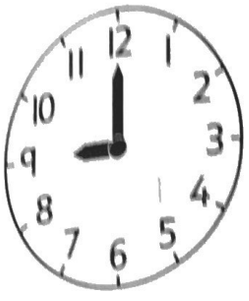
2 : 30

b) 

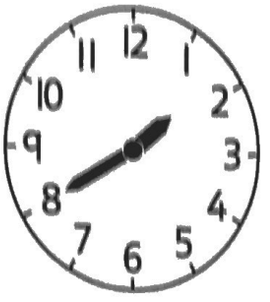
8 : 15

c) 

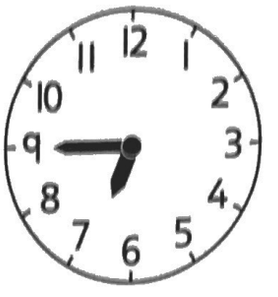
10 : 10

d) 

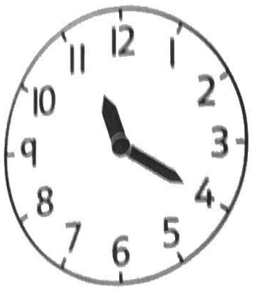
9 : 00

e) 

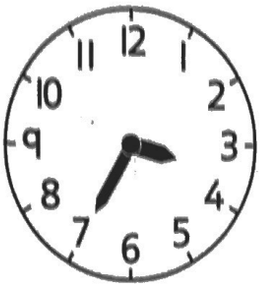
1 : 40

f) 

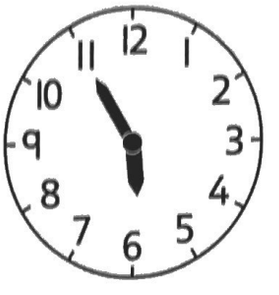
6 : 45

g) 

11 : 20

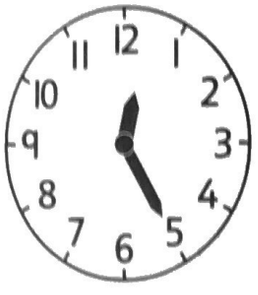
h) 

3 : 35

i) 

5 : 55

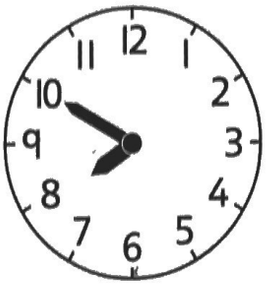
4. What time is it?

a) 

25 minutes past 12

b) 

5 minutes past 4

c) 

50 minutes past 7

ME3-21 Intervals of Time

1 week = 7 days | 1 day = 24 hours | 1 hour = 60 minutes

Skip count to fill in the table.

a)

Weeks	Days
1	7
2	14
3	21

+7, +7

b)

Days	Hours
1	24
2	48
3	72

+24, +24

c)

Hours	Minutes
1	60
2	120
3	180

+60, +60

a) Nina's birthday is in 2 weeks. How many days until Nina's birthday? 14

b) A weekend is 2 days long. How many hours long is one weekend? 48

A train ride from Toronto to Vancouver takes 87 hours. How long is the trip? Circle the correct answer.

between 2 and 3 days | between 3 and 4 days | between 4 and 5 days

A test is 90 minutes long.

a) Is the test longer than 1 hour? Yes

b) Is the test longer than 2 hours? NO

Ronin walks his dog 3 times a day, 20 minutes each time.

a) How many minutes does he walk his dog in one day? 60 min per day

b) How many hours does he walk his dog in one day? 1 hr

c) How many hours each week does Ronin spend walking his dog? 7 hrs

Zara exercises 40 minutes every day.

a) How many minutes does she exercise in one week?

Hint: Skip count by 40. (or 40 x 7) 280 min

b) A doctor says Zara should exercise at least 3 hours a week.

Does she exercise enough? yes

NS3-71 Rounding Tens

Multiples of 10 are the numbers you say when counting by tens starting at 0.
0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, and so on.

1. Find the multiple of 10 that comes after the number.

a) 23, 30 b) 64, 70 c) 78, 80 **BONUS ▶** 101, 110

2. Find the multiple of 10 that comes before the number.

a) 40, 46 b) 80, 85 c) 20, 22 **BONUS ▶** 100, 109

3. Find the multiples of 10 before and after the number.

a) 40, 43, 50 b) 60, 67, 70 c) 10, 18, 20

d) 70, 71, 80 e) 0, 7, 10 f) 30, 35, 40

4. Draw an arrow to show if the circled number is closer to the multiple of 10 that comes before or after the number.

a) 10 11 12 (13) 14 15 16 17 18 19 20

b) 40 41 42 43 44 45 (46) 47 48 49 50

c) 70 71 72 73 74 75 76 (77) 78 79 80

d) 90 91 (92) 93 94 95 96 97 98 99 100

e) 30 31 32 33 (34) 35 36 37 38 39 40

f) 60 61 62 63 64 65 66 67 (68) 69 70

5. Look at your answers to Question 4.

a) List the ones digits of the numbers that are closer to the **previous** multiple of 10. 3, 2, 4

b) List the ones digits of the numbers that are closer to the **next** multiple of 10. 6, 7, 8

c) Why are the numbers with a ones digit of 5 a special case?

When **rounding** to the nearest multiple of 10:

- if the ones digit is 1, 2, 3, or 4, **round down** to the previous multiple of 10.
- if the ones digit is 5, 6, 7, 8, or 9, **round up** to the next multiple of 10.

Examples: 53 rounds down to 50. 47 rounds up to 50.

6. Round to the nearest multiple of 10. Circle the answer.

a) 58 is rounded to 50 or (60)

b) 32 is rounded to (30) or 40

c) 64 is rounded to (60) or 70

d) 21 is rounded to (20) or 30

e) 77 is rounded to 70 or (80)

f) 25 is rounded to 20 or (30)

7. Find the previous and the next multiple of 10. Which would you round the number to? Circle it.

a) 27 20 or (30)

b) 43 (40) or 50

c) 89 80 or (90)

d) 65 60 or (70)

e) 14 (10) or 20

f) 7 0 or (10)

8. Round to the nearest ten.

a) 62 [60]

b) 47 [50]

c) 39 [40]

d) 21 [20]

9. Simon has 87 baseball cards. Rounded to the nearest ten, how many baseball cards does he have? 90

10. Tessa's mother worked 43 hours last week. Rounded to the nearest ten, how many hours did she work? 40

11. Jack picked 76 cherries for his basket. Rounded to the nearest ten, how many cherries did he pick? 80