TIME

A UNITS OF TIME	□ Hours
A 1. CHOOSING THE DIGHT HNITS OF TIME	□ Days
A.1 CHOOSING THE RIGHT UNITS OF TIME	□ Weeks
MCQ 1: Which unit would you use to measure the time it akes to run 100 meters? Check one answer:	□ Months □ Years
⊠ Seconds	Answer:
☐ Minutes	• Your age is how many years you've lived, like 8 or 9 years.
☐ Hours	• We need a unit that measures a long time for people.
□ Days	• The best unit is years .
□ Weeks	• Answer: years.
☐ Months	
□ Years	MCQ 4: Which unit would you use to measure the time it takes to watch a movie? Check one answer:
nswer:	□ Seconds
• Running 100 meters is a very quick event.	□ Minutes
• We need a small unit of time to measure it.	⊠ Hours
• The best unit is seconds . Yay!	□ Days
• Answer: seconds .	
MCQ 2: Which unit would you use to measure the time it akes to clean up your bedroom? Check one answer:	 Answer: Watching a movie takes a medium amount of time, like 1 t 2 hours.
□ Seconds	• We need a unit that's not too small or too big to measur
⊠ Minutes	it.
☐ Hours	 The best unit is hours. Answer: hours.
□ Days	
□ Weeks	MCQ 5: Which unit would you use to measure the time takes to go on a family camping trip? Check one answer:
☐ Months	
☐ Years	\square Seconds
answer:	□ Minutes
	☐ Hours
• Cleaning up a bedroom takes a short time, like 10 to 30 minutes. □ Hours □ Days	⊠ Days
• We need a unit that's not too small or too big to measure it.	Answer:
• The best unit is minutes .	\bullet A family camping trip usually takes a few days, like 3 to days.
• Answer: minutes.	
ACQ 3: Which unit would you use to measure your age?	• We need a unit that measures a few days, not too short of too long.
Check one answer:	• The best unit is days.
□ Seconds	• Answer: days.

 \square Minutes

B CONVERTING UNITS OF TIME

B.1 CONVERTING UNITS OF TIME FROM BIGGER TO SMALLER

Ex 6:

Convert 2 hours to minutes:

$$2 h = \boxed{120} \min$$

Answer:

$$2 h = 2 \times 60 \min$$
$$= 120 \min$$

Ex 7:

Convert 3 days to hours:

$$3 d = \boxed{72} h$$

Answer:

$$3 d = 3 \times 24 h$$

= $72 h$

Ex 8:

Convert 5 minutes to seconds:

$$5 \min = \boxed{300} s$$

Answer:

$$5 \min = 5 \times 60 \,\mathrm{s}$$
$$= 300 \,\mathrm{s}$$

Ex 9:

Convert 2 weeks to days:

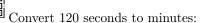
$$2 \text{ wk} = \boxed{14} d$$

Answer:

$$2 wk = 2 \times 7 d$$
$$= 14 d$$

B.2 CONVERTING UNITS OF TIME FROM SMALLER TO BIGGER

Ex 10:



$$120 \mathrm{\ s} = \boxed{2} \mathrm{\ min}$$

Answer:

$$120 s = 120 \div 60 min$$

= $2 min$

Ex 11:

Convert 24 hours to days:

$$24 \text{ h} = \boxed{1} \text{ d}$$

Answer:

$$24 h = 24 \div 24 d$$

= 1 d

Ex 12: Convert 180 minutes to hours:

$$180 \min = \boxed{3} h$$

Answer:

$$180 \min = 180 \div 60 \text{ h}$$

= 3 h

Ex 13

Convert 14 days to weeks:

$$14 d = \boxed{2} wk$$

Answer:

$$14 d = 14 \div 7 wk$$
$$= 2 wk$$

B.3 DIVIDING TIME

Ex 14: If you divide an hour into two equal parts, how many minutes are in half an hour?

Half an hour
$$=$$
 30 minutes

Answer:

- An hour has 60 minutes.
- We divide it into two equal periods.
- Splitting 60 by 2 gives: $60 \div 2 = 30$.
- One half hour is 30 minutes.

Ex 15: If you divide an hour into four equal parts, how many minutes are in one quarter of an hour?

One quarter of an hour $= \boxed{15}$ minutes

Answer:

- An hour has 60 minutes.
- We divide it into four equal periods.
- Splitting 60 by 4 gives: $60 \div 4 = 15$.
- One quarter hour is 15 minutes.

Ex 16: If you divide a day into two equal parts, how many hours are in half a day?

Half a day
$$=$$
 12 hours

Answer:

- A day has 24 hours.
- We divide it into two equal periods.
- Splitting 24 by 2 gives: $24 \div 2 = 12$.
- Half of a day is 12 hours.

C 24-HOUR TIME FORMAT

C.1 TELLING TIME THE 24-HOUR WAY

Ex 17: Your favorite show starts at 6:15 PM. What time is it in 24-hour time?

18:15

Answer:

- Look at PM. Add 12 to the hours: 6 + 12 = 18.
- Keep the minutes: 15 minutes.
- Write the time: **18:15**.

Ex 18: You wake up at 7:45 AM for school. What time is it in 24-hour time?

07 : 45

Answer:

- Look at AM. The hours stay the same: 7 hours.
- Keep the minutes: 45 minutes.
- Write the time: **07:45**.

Ex 19: Your soccer game starts at 4:30 PM. What time is it in 24-hour time?

16:30

Answer

- Look at PM. Add 12 to the hours: 4 + 12 = 16.
- Keep the minutes: 30 minutes.
- Write the time: **16:30**.

Ex 20: You eat dinner at 7:00 PM. What time is it in 24-hour time?

19:00

Answer:

- Look at PM. Add 12 to the hours: 7 + 12 = 19.
- Keep the minutes: 0 minutes.
- Write the time: **19:00**.

C.2 FINDING EVERYDAY TIME FROM 24-HOUR CLOCKS

Ex 21: You have breakfast at 07:30. What time is it?

7:30 **AM**

Answer:

- Look at 07:30. It's less than 12:00, so the hours stay 7.
- Keep the minutes: 30 minutes.
- Times before noon are AM.
- Write the time: **7:30 AM**.

Ex 22: Your art class starts at 14:45. What time is it?

2 : 45 **PM**

Answer:

- Look at 14:45. It's more than 12:00, so subtract 12 from the hours: 14 12 = 2.
- Keep the minutes: 45 minutes.
- Times after 12:00 are PM.
- Write the time: 2:45 PM.

Ex 23: You go to bed at 20:00. What time is it?

8:00 **PM**

Answer:

- Look at 20:00. It's more than 12:00, so subtract 12 from the hours: 20 12 = 8.
- Keep the minutes: 0 minutes.
- Times after 12:00 are PM.
- Write the time: 8:00 PM.

Ex 24: Your music lesson starts at 15:20. What time is it?

3:20 **PM**

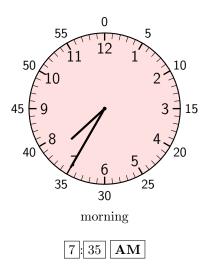
Answer:

- Look at 15:20. It's more than 12:00, so subtract 12 from the hours: 15 12 = 3.
- Keep the minutes: 20 minutes.
- Times after 12:00 are PM.
- Write the time: 3:20 PM.

D READING CLOCK

D.1 READING CLOCK

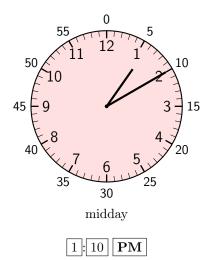
Ex 25: You leave for school at the time shown on this clock. What time is it?



Answer:

- The little hand is past the 7 but not yet at the 8, so the hour is 7.
- The big hand points to 7. Count by 5s: 5, 10, 15, 20, 25, 30, 35 minutes.
- It's morning, so the time is **7:35 AM**.

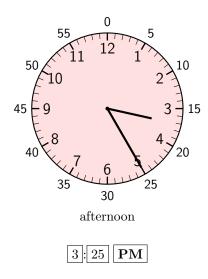
Ex 26: You eat lunch at the time shown on this clock. What time is it?



Answer:

- The little hand points to the 1, so the hour is 1.
- The big hand points to 2. Count by 5s: 5, 10 minutes.
- It's midday, just after noon, so the time is **01:10 PM**.

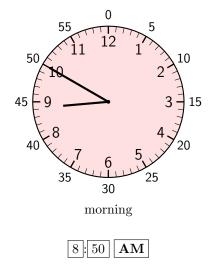
Ex 27: Your playtime starts at the time shown on this clock. What time is it?



Answer:

- The little hand points to the 3, so the hour is 3.
- The big hand points to 5. Count by 5s: 5, 10, 15, 20, 25 minutes.
- It's afternoon, so the time is **3:25 PM**.

Ex 28: You read a book at the time shown on this clock. What time is it?

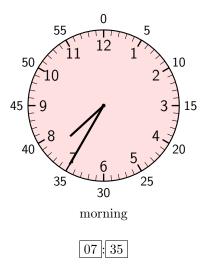


Answer:

- The little hand is past the 8 but not yet at the 9, so the hour is 8.
- The big hand points to 10. Count by 5s: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 minutes.
- It's morning, so the time is **8:50 AM**.

D.2 READING CLOCK FOR 24-HOUR TIME

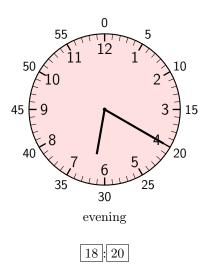
Ex 29: You leave for school at the time shown on this clock. What time is it in 24-hour format?



Answer:

- The little hand is past the 7 but not yet at the 8, so the hour is 7.
- The big hand points to 7. Count by 5s: 5, 10, 15, 20, 25, 30, 35 minutes.
- It's morning, so the hours stay the same. Add a zero before 7 for 24-hour time.
- Write the time: **07:35**.

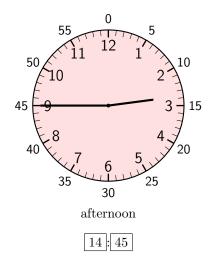
Ex 30: You eat dinner at the time shown on this clock. What time is it in 24-hour format?



Answer:

- The little hand points to the 6, so the hour is 6.
- The big hand points to 4. Count by 5s: 5, 10, 15, 20 minutes.
- It's evening, so add 12 to the hours: 6 + 12 = 18.
- Write the time: **18:20**.

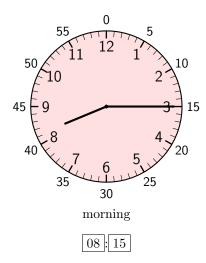
Ex 31: Your art class starts at the time shown on this clock. What time is it in 24-hour format?



Answer:

- The little hand points to the 2, so the hour is 2.
- The big hand points to 9. Count by 5s: 5, 10, 15, 20, 25, 30, 35, 40, 45 minutes.
- It's afternoon, so add 12 to the hours: 2 + 12 = 14.
- Write the time: **14:45**.

Ex 32: You have breakfast at the time shown on this clock. What time is it in 24-hour format?



Answer:

- The little hand points to the 8, so the hour is 8.
- The big hand points to 3. Count by 5s: 5, 10, 15 minutes.
- It's morning, so the hours stay the same. Add a zero before 8 for 24-hour time.
- Write the time: **08:15**.