Our Sky

Standard difficulty · 20 questions · 40 marks · Time: 54 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. The brightest object in our sky is:

(a) the brightest star at night **(b)** a cloud
(c) the Moon **(d)** the Sun

2. At 6 p.m. the Sun is low in the west. A tree's shadow is:

(a) long and pointing east **(b)** long and pointing west
(c) very short **(d)** not formed at all

3. At what time of day do we usually see this: owls come out to hunt?

(a) noon **(b)** morning **(c)** night **(d)** evening

4. On a night when the Moon looks like a circle cut down the middle, we call it the:

(a) half Moon **(b)** crescent Moon **(c)** full Moon **(d)** new Moon

5. Which of these gives out its OWN light?

(a) a book **(b)** a cloud **(c)** the Moon **(d)** a firefly

6. Which of these makes a dark shadow when light falls on it?

(a) a clear plastic sheet **(b)** clear water in a glass
(c) clear window glass **(d)** a brick wall

7. One day the Sun rose at 6:00 a.m. and set at 7:00 p.m. in the evening. For how long was the Sun in the sky?

(a) 12 hours **(b)** 14 hours
(c) 13 hours **(d)** 13 hours 30 minutes

8. India's Vikram lander touched down on the Moon in 2023. How many years after that is 2058?

(a) 58 years **(b)** 36 years **(c)** 38 years **(d)** 35 years

Section B — Short answer — 8 × 2 = 16 marks

9. How does the sky look in the morning, in the afternoon and at night?

10. At 6 p.m. the Sun is low in the west. A flag pole's shadow: is it long or short, and which way does it point?

11. Write "morning", "noon", "evening" or "night": (a) birds fly back to their nests (b) the Moon and stars shine in a dark sky

12. Name the Moon when it (a) looks like a circle cut down the middle (b) looks like a thin curve like the letter C

13. Does it give out its own light? Write "yes" or "no": (a) a mirror (b) a star

14. A stick 33 cm tall casts a shadow 4 times as long as itself in the early morning. How long is the shadow?

15. The Moon takes about 30 days to go from one full Moon to the next. About how many days do 5 such rounds take?

16. On a clear night, Meera drew the stars she saw in 5 rows with 5 stars in each row. How many stars did she draw?

Section C — Word problems — 4 × 4 = 16 marks

17. Give two differences between day and night in the sky, in our activities and in what animals do.

18. One summer day the Sun rose at 5:00 a.m. and set at 7:30 p.m. in the evening. (a) How long was it daytime? (b) How long was it night? (c) In which direction did the Sun rise, and where did your shadow point at sunrise?

19. A pole is 120 cm tall. Its shadow is 2 times its height at 7 a.m. and only half its height at noon. (a) How long is the shadow at 7 a.m.? (b) At noon? (c) Why is the noon shadow shorter? (d) Which way does the 7 a.m. shadow point?

20. Draw and name the Moon for each: (a) it looks like a circle cut down the middle (b) it looks like a complete round circle

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Answer key

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Q	Answer	Working
1	**(d) the Sun**	—
2	**(a) long and pointing east**	A shadow falls on the side away from the Sun; it is shortest when the Sun is high
3	**(c) night**	—
4	**(a) half Moon**	—
5	**(d) a firefly**	—
6	**(d) a brick wall**	—
7	**(c) 13 hours**	7:00 p.m. − 6:00 a.m. = 13 hours
8	**(d) 35 years**	2058 − 2023 = 35
9	**Morning: orange sky and an orange Sun; afternoon: bright, strong sunlight; night: dark sky with the Moon and stars.**	—
10	**Long and pointing east**	A shadow falls on the side away from the Sun
11	**(a) evening (b) night**	—
12	**(a) half Moon (b) crescent Moon**	—
13	**(a) no (b) yes**	—
14	**132 cm**	33 × 4 = 132
15	**about 150 days**	30 × 5 = 150
16	**25 stars**	5 × 5 = 25
17	**Sky: the Sun shines by day; the Moon and stars by night. Us: we work, study and play by day; we rest and sleep at night. Animals: most birds are busy by day and rest at night; owls and bats come out at night.**	—
18	**(a) 14 hours 30 minutes (b) 9 hours 30 minutes (c) The Sun rose in the east; the shadow pointed west.**	7:30 p.m. − 5:00 a.m. = 14 hours 30 minutes; 24 hours − 14 hours 30 minutes = 9 hours 30 minutes
19	**(a) 240 cm (b) 60 cm (c) The Sun is high overhead at noon, so the shadow is short. (d) West, away from the Sun in the east.**	120 × 2 = 240; 120 ÷ 2 = 60
20	**(a) half Moon (b) full Moon**	—

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