



MATHS

BOOKS - MCGROW HILL EDUCATION

MATHS (HINGLISH)

PROBLEMS ON CLOCKS

Example

1. Between 2 o'clock to 10 o'clock, how many times the hands of a clock are at right angle?

A. 14

B. 12

C. 16

D. 15

Answer:



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2. Find the angle between the hour hand and the minute hand of a clock when the time is

2:25.



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3. Find the angle between hands of a clock when the time is 8:45



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4. A wall clock takes 10 seconds to strike 6.
How much time it will take to strike 12.



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5. A mirror is placed in front of the clock. The clock shows time 5:40. What will be its reflection in the mirror?



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Exercise

1. How many times do the hands of a clock coincide in a day? (a) 20 (b) 21 (c) 22 (d) 24

A. 11

B. 12

C. 22

D. 24

Answer: C



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2. How many times are the hands of a clock at right angle in a day? (a) 22 (b) 24 (c) 44 (d) 48

A. 4

B. 12

C. 22

D. 44

Answer: D



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3. How many times in a day, are the hands of a clock in straight line but opposite in direction?

(a) 20 (b) 22 (c) 24 (d) 48

A. 24

B. 22

C. 12

D. 11

Answer: B



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4. When the clock shows time 25 minutes past 2, the angle between the hands is:

A. 75°

B. $67\frac{1}{2}^\circ$

C. $77\frac{1}{2}^\circ$

D. 65°

Answer: C



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5. When the time by the watch is 20 minutes past 7, the angle between the hands of the watch is:

A. 100°

B. 90°

C. 80°

D. 95°

Answer: A



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6. The time by my watch is 10 minutes to 7, find the angle between the hour hand and the minute hand.

A. 110°

B. 120°

C. 105°

D. 95°

Answer: D



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7. Find the angle between the hour hand and the minute hand of a clock when the time is 3.25.

A. 60°

B. $47\frac{1}{2}^\circ$

C. $52\frac{1}{2}^\circ$

D. $55\frac{1}{2}^\circ$

Answer: B



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8. Find the angle between the hour hand and the minute hand of a clock when the time is 25 minutes to 8

A. $12\frac{1}{2}^{\circ}$

B. $17\frac{1}{2}^{\circ}$

C. 20°

D. $22\frac{1}{2}^{\circ}$

Answer: B



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9. When the time is 4:20, the angle between the hands of the clock is:

A. 20°

B. 15°

C. $12\frac{1}{2}^\circ$

D. 10°

Answer: D



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10. The reflex angle between the hands of a clock at 10.25 is 180° (b) $192\frac{1}{2}^\circ$ (c) 195° (d) $197\frac{1}{2}^\circ$

A. 180°

B. $192\frac{1}{2}^\circ$

C. 195°

D. $197\frac{1}{2}^\circ$

Answer: D



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11. At what time b/w 2 and 3 oclock will the hands of a clock be together

A. $10\frac{10}{11}$ min . Past 2

B. $11\frac{10}{11}$ min .past 2

C. $13\frac{10}{11}$ min . Past 2

D. $7\frac{10}{11}$ min . Past 2

Answer: A



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12. At what time b/w 4 and 5 oclock will the hands of a clock be at right angle

A. $9\frac{5}{11}$ min past 4

B. $5\frac{5}{11}$ min past 4

C. $11\frac{5}{11}$ min past 4

D. $9\frac{7}{11}$ min past 4

Answer: B



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13. Find at what time b/w 8 and 9 o'clock will the hands of a clock be in the same straight line but not together

A. $10\frac{9}{11}$ min , past 8

B. $10\frac{10}{11}$ min .past 8

C. $11\frac{10}{11}$ min past 8

D. none of these

Answer: B



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14. If a mirror is placed opposite to a clock and the time shown in the clock is 4:30, then what will be time in the mirror's clock?

A. 8:30

B. 9:30

C. 7:30

D. 4:30

Answer: C



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15. At 12 o'clock, the minute hand is point East.

At 4:30, in which direction will the hour hand point?

A. North-west

B. South-east

C. South

D. South-west

Answer: D



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16. Between 4 and 5 o'clock, when the hands will be inclined at 60° for the first time?

A. $10\frac{10}{11}$ min past 4

B. $11\frac{10}{11}$ min past 4

C. 12 min past 4

D. $9\frac{10}{11}$ min . Past 4

Answer: A



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17. The wall clock takes 6 seconds to strike 4,
how much time it will take to strike 12?

A. 18 seconds

B. 20 seconds

C. 22 seconds

D. 24 seconds

Answer: C



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18. The clock shows time 12 minutes past 8 o'clock. Find its reflection time if the mirror is placed in front of the clock.

A. 4: 12

B. 4: 24

C. 3: 48

D. 4: 48

Answer: C



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19. A wall clock strike 12 and it takes 33 seconds to do so. How much time it will take to strike 4?

- A. 9 seconds
- B. 10 seconds
- C. 11 seconds
- D. 12 seconds

Answer: A



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20. Find the angle made by clock hands at 5:40

A. 75°

B. 85°

C. 70°

D. 80°

Answer: C



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