Finding and Comparing Unit Rates Worksheets

ANSWER / CASE 1

Robot A moves 12 m in 3 s. Robot B moves 20 m in 4 s. Assume each speed is constant. Find both unit rates and identify the faster robot.

Robot	Distance (m)	Time (s)
A	12	3
B	20	4

ANSWER: A: 4 m/s; B: 5 m/s. Robot B is faster.
1. For each robot divide distance by time.
2. Compare the rates using the same unit, metres per second.

Finding and Comparing Unit Rates Worksheets

ANSWER / CASE 2

Robot A moves 18 m in 3 s. Robot B moves 28 m in 4 s. Assume each speed is constant. Find both unit rates and identify the faster robot.

Robot	Distance (m)	Time (s)
A	18	3
B	28	4

ANSWER: A: 6 m/s; B: 7 m/s. Robot B is faster.
1. For each robot divide distance by time.
2. Compare the rates using the same unit, metres per second.

Finding and Comparing Unit Rates Worksheets

ANSWER / CASE 3

Robot A moves 24 m in 3 s. Robot B moves 36 m in 4 s. Assume each speed is constant. Find both unit rates and identify the faster robot.

Robot	Distance (m)	Time (s)
A	24	3
B	36	4

ANSWER: A: 8 m/s; B: 9 m/s. Robot B is faster.
1. For each robot divide distance by time.
2. Compare the rates using the same unit, metres per second.

Finding and Comparing Unit Rates Worksheets

ANSWER / CASE 4

Robot A moves 30 m in 3 s. Robot B moves 44 m in 4 s. Assume each speed is constant. Find both unit rates and identify the faster robot.

Robot	Distance (m)	Time (s)
A	30	3
B	44	4

ANSWER: A: 10 m/s; B: 11 m/s. Robot B is faster.
1. For each robot divide distance by time.
2. Compare the rates using the same unit, metres per second.