

4. Unit Ratio Word Problems

Applying Unit Ratios to Real-World Problems

With the **unit ratio**, you can find the total (**forward**) or find the quantity (**backward**).

- a) 1 pen costs 3 yuan. How much for 5 pens? How many pens for 24 yuan?

Cost (yuan)	3	→	15	→	24
Pens	1	→	5	→	8
Unit Price	3	→	3	→	3

- b) Apples cost 5 yuan/kg. How much for 3 kg? How many kg for 35 yuan?

Cost (yuan)	5	→		→	35
Apples (kg)	1	→	3	→	
Unit Price	5	→	5	→	5

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- c) A car travels at 60 km/h. How far in 4 hours? How many hours for 300 km?

Distance (km)	60	→		→	300
Time (h)	1	→	4	→	
Speed	60	→	60	→	60

- d) Reading 8 pages per day. How many pages in 6 days? How many days for 56 pages?

Pages	8	→		→	56
Days	1	→	6	→	
Rate	8	→	8	→	8

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- e) Milk costs 4 yuan per carton. How much for 6 cartons? How many cartons for 28 yuan?

Cost (yuan)	4	→		→	28
Milk (cartons)	1	→	6	→	
Unit Price	4	→	4	→	4

- f) Running at 200 m/min. How far in 5 minutes? How many minutes for 1800 m?

Distance (m)	200	→		→	1800
Time (min)	1	→	5	→	
Speed	200	→	200	→	200