

Unit Rates Solve & Check Cards Answers

1. $6\text{cm} + 5\text{cm} = 11\text{cm}$
2. $\$18 + \$17.50 = \$35.50$
3. $131\text{km} + 102\text{km} = 233\text{km}$
4. $18\text{ points} + 20\text{ points} = 38\text{ points}$
5. $\$2.25 + \$1.60 = \$3.85$
6. $9.29\text{m} + 8.4\text{m} = 17.69\text{m}$
7. $\$6 + \$7 = \$13$
8. $14.6\text{kj} + 18\text{kj} = 32.6\text{kj}$
9. $\$17.50 + \$25 = \$42.50$
10. $\$2.75 + \$1.50 = \$4.25$
11. $18.75\text{km} + 19\text{km} = 37.75\text{km}$
12. $11\text{ press ups} + 10\text{ press ups} = 54\text{ press ups}$
13. $25\text{ bags} + 29\text{ bags} = 54\text{ bags}$
14. $42,512\text{ points} + 147,963\text{ points} = 190,475\text{ points}$
15. $2\text{ questions} + 2\text{ questions} = 4\text{ questions}$
16. $\$2.39 + \$2.85 = \$5.24$
17. $42\text{ words} + 65\text{ words} = 107\text{ words}$
18. $320\text{km} + 930\text{km} = 1250\text{km}$
19. $4\text{kg} + 2\text{kg} = 6\text{kg}$
20. $\$700 + \$1400 = \$2100$

Solve & Check



1 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a 12cm of snow fell in 2 hours today!

b Yesterday 20cm of snow fell in 4 hours!



Add the top numbers together...

✓ $a + b = \boxed{11\text{cm}}$ Do they equal this?
If not, try again!

2 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a Dave mowed 6 lawns for \$108.

b Ruby mowed 8 lawns for \$140.



Add the top numbers together...

✓ $a + b = \boxed{\$35.50}$ Do they equal this?
If not, try again!

3 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a One beetle car travelled 393km in 3 hours.

b Another beetle car travelled 612km in 6 hours.



Add the top numbers together...

✓ $a + b = \boxed{233\text{km}}$ Do they equal this?
If not, try again!

4 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

- a** One local rugby league team scored 360 points in 20 games.
- b** Another local rugby league team scored 240 points in 12 games.



Add the top numbers together...

✓ $a + b = \boxed{38 \text{ points}}$ Do they equal this?
If not, try again!

5 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

- a** Strawberries are on sale! Yum! \$9 for 4kg.
- b** Blueberries are on sale too! Double yum!!
\$4 for 2.5kg



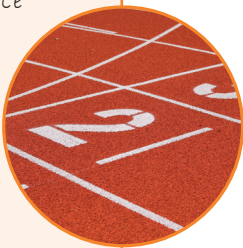
Add the top numbers together...

✓ $a + b = \boxed{\$3.85}$ Do they equal this?
If not, try again!

6 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

- a** The world record for the men's 400m running race is 43.03 seconds.
Record your answers to 2 decimal places.
- b** The world record for the women's 400m running race is 47.60 seconds.
Record your answers to 2 decimal places.



Add the top numbers together...

✓ $a + b = \boxed{17.69m}$ Do they equal this?
If not, try again!

7 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

- a** Sam bought 6 movie tickets for \$36.
- b** Lukas paid \$21 for 3 movie tickets.



Add the top numbers together...

✓ $a + b = \boxed{\$13}$ Do they equal this?
If not, try again!

8 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a Edam cheese has 1460kj of energy per 100g serving.

b Tasty cheese has 1800kj of energy per 100g serving.



Add the top numbers together...

✓ $a + b = \boxed{32.6kj}$ Do they equal this?
If not, try again!

9 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a Bella got paid \$70 for 4 hours of work.

b Epeli worked for 9 hours and got paid \$225.



Add the top numbers together...

✓ $a + b = \boxed{\$42.50}$ Do they equal this?
If not, try again!

10 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a 4 cans of tuna cost \$11.

b 4 cans of baked beans cost \$6.



Add the top numbers together...

✓ $a + b = \boxed{\$4.25}$ Do they equal this?
If not, try again!

11 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a One motorbike can travel 225km using 12 litres of fuel.

b Another motorbike uses 9 litres of fuel to travel 171km.



Add the top numbers together...

✓ $a + b = \boxed{37.75km}$ Do they equal this?
If not, try again!

12 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a It takes Aroha 3 minutes to do 33 press ups.

b Phoenix can do 20 press ups in 2 minutes.



Add the top numbers together...

✓ $a + b = \boxed{21 \text{ press ups}}$ Do they equal this?
If not, try again!

13 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a Sarah sold 75 bags of cherries over 3 days.

b Anaru sold 145 bags of apricots over 5 days.



Add the top numbers together...

✓ $a + b = \boxed{54 \text{ bags}}$ Do they equal this?
If not, try again!

14 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a Simon spends 3 hours gaming and earns 127,536 points.

b Jonty spends 2 hours gaming and earns 295,926 points.



Add the top numbers together...

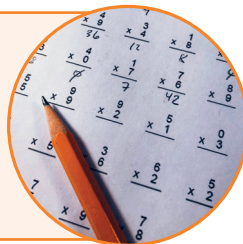
✓ $a + b = \boxed{190,475 \text{ points}}$ Do they equal this?
If not, try again!

15 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a It takes one student 60 minutes to complete a 120 question test.

b Another student takes 50 minutes to complete a 100 question test.



Add the top numbers together...

✓ $a + b = \boxed{4 \text{ questions}}$ Do they equal this?
If not, try again!

16 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a A 5 litre petrol can costs \$11.95 to fill up.

b It costs \$8.55 to fill up a 3 litre petrol can.



Add the top numbers together...

✓ **a** + **b** = $\boxed{\$5.24}$ Do they equal this?
If not, try again!

17 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a Harry can text 126 words in 3 minutes.

b Selina can text 455 words in 7 minutes.



Add the top numbers together...

✓ **a** + **b** = $\boxed{107 \text{ words}}$ Do they equal this?
If not, try again!

18 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a A bullet train travels 960km in 3 hours.

b An aeroplane travels 3720km in 4 hours.



Add the top numbers together...

✓ **a** + **b** = $\boxed{1250\text{km}}$ Do they equal this?
If not, try again!

19 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a Bob the dog consumes 8kg of dog biscuits every 2 weeks.

b Oscar the cat consumes 6kg of cat food every 3 weeks.



Add the top numbers together...

✓ **a** + **b** = $\boxed{6\text{kg}}$ Do they equal this?
If not, try again!

20 Rates 2-Step Grid Challenge

Find each unit rate... $\frac{\#}{1}$

a The cost of renting the apartment for 3 months was \$2100.

b The cost of renting the house for 6 months was \$8400.



Add the top numbers together...



$$a + b = \boxed{\$2100}$$

Do they equal this?
If not, try again!

Unit Rates Solve & Check Cards

Hi there,

This is a super resource to use if you want your students to do some practice calculating unit rates and promote student agency but you don't want to have a huge pile of marking to do! A win all around!

These cards are designed to be done independently and are self-checking. Students solve each unit rate, then add their two answers together to check if their numbers match the one in the bottom corner of the card. If it's not right, they can check their calculations and try again.

Note: Students are not comparing the unit rates on the cards to see which is greatest or least. They are just practising the method of finding a unit rate ($\#/1$) and adding the two top numbers together to check if their calculations for each equation are correct.

Here are a few ideas for how you could use these cards:

- Maths stations around your learning space.
- Group challenge i.e. how many cards they complete and get correct in a set time.
- Run a cantamath style competition where students in small groups have to complete one card and run to the judges table to see if it's correct before they get the next card.
 - Make sure you cut off or black out the answers on the student cards before you start!
 - Some of the division is reasonably challenging so it's your call whether you give them the option of using a calculator or not. Perhaps they have a certain number of chances to use it out of the 20 questions.
 - An answer sheet is provided for judging purposes.

We hope you and your students enjoy using this resource.

Team Twinkl