Homework/Extension
Step 6: Division to Solve Problems

National Curriculum Objectives:

Mathematics Year 6: (6C8) Solve problems involving addition, subtraction, multiplication and division
Mathematics Year 6: (6F9c) Use written division methods in cases where the answer has up to two decimal places

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Select the correct calculation and solve the problem. Up to one exchange per calculation. Numbers up to 2 decimal places included.
Expected Select the correct calculation and solve the problem. Up to two exchanges per calculation. Numbers up to 2 decimal places included.
Greater Depth Select the correct calculation and solve the problem. Numbers up to 2 decimal places. Questions include multiple exchanges.

Questions 2, 5 and 8 (Varied Fluency)
Developing Solve the problem where there is up to one exchange per calculation. Numbers up to 2 decimal places included.
Expected Solve the problem where there is up to two exchanges per calculation. Numbers up to 2 decimal places included.
Greater Depth Solve the problem where questions include multiple exchanges. Two-step problem.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Complete the product towers where there is up to one exchange per calculation. Numbers up to 2 decimal places included.
Expected Complete the product towers where there is up to two exchanges per calculation. Numbers up to 2 decimal places included.
Greater Depth Complete the product towers where questions include various exchanges. Numbers up to 2 decimal places included. Numbers up to 2 decimal places.

More Year 6 Decimals resources.

Did you like this resource? Don't forget to review it on our website.

Division to Solve Problems

1. Circle the calculation you would use to solve the problem.

Jay helps his dad wash and clean the car each week. It takes him 3 hours – he is very thorough and he enjoys this time with his dad. His dad pays him £3.75. How much does he earn per hour?

A. £3.75 ÷ 2

B. 3 ÷ £3.75

C. £3.75 ÷ 3

D. 4 ÷ £3.75

Now solve it.

D

VF
HW/Ext

2. Five children go to the cinema. They share a small tray of nachos between them. How much do they pay each?

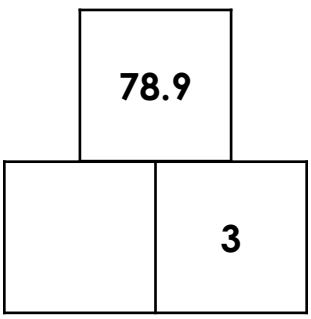
Cinema Snack Menu

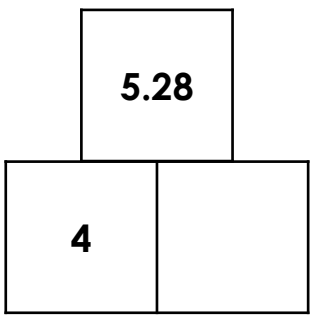
Small Popcorn - £4.85
Small Nachos - £3.55
Large Popcorn - £6.60
Large Nachos - £5.65

D

VF
HW/Ext

3. In this tower, two numbers are multiplied to give the number above. Complete each tower to make them correct.





D

RPS
HW/Ext

Division to Solve Problems

4. Circle the calculation you would use to solve the problem.

Wendy's family own a newsagents. Wendy helps her dad 6 mornings a week delivering newspapers. Her dad pays her a small amount - £27.00 each week. How much does she earn per day?

A. 6 ÷ £27.00

B. 7 ÷ £27.00

C. £27.00 ÷ 7

D. £27.00 ÷ 6

Now solve it.

E

VF
HW/Ext

5. Four children go to the cafe. They share a large box of chips between them. How much do they pay each?

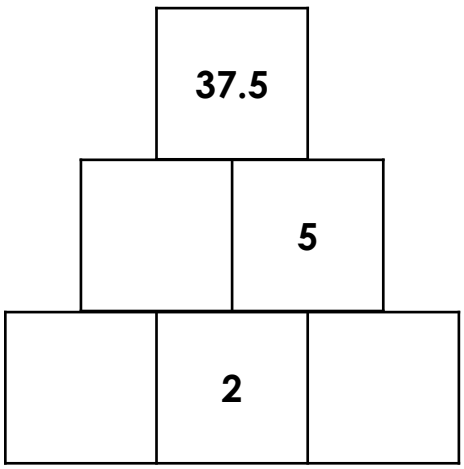
Cafe Menu

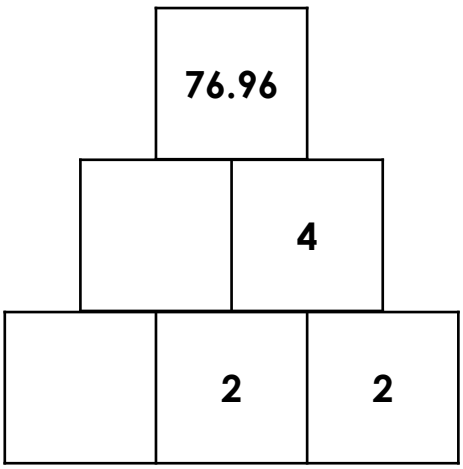
Small Chips - £1.55
Small Coffee - £1.00
Large Chips - £2.60
Large Coffee - £.1.75

E

VF
HW/Ext

6. In this tower, two numbers are multiplied to give the number above. Complete each tower to make them correct.





E

RPS
HW/Ext

Division to Solve Problems

7. Circle the calculation you would use to solve the problem.

Amaan works 5 days a week (Monday – Friday) and for 7 hours each day. He earns £95.55 each day. He is pleased when he takes home £477.75 each week. How much does he earn per hour?

A. £95.55 ÷ 5

B. £477.75 ÷ 7

C. £95.55 ÷ 7

D. £477.75 ÷ 5

Now solve it.

GD

VF
HW/Ext

8. Six children go to the cinema. They share a small pepperoni pizza and a large margarita between them. How much do they pay each?

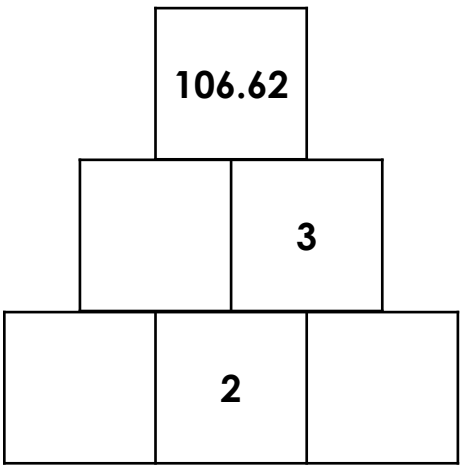
Pizza Shop Menu

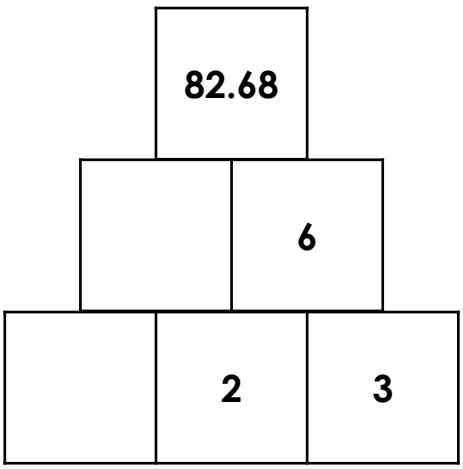
Small Pepperoni - £3.55
Small Margarita - £3.45
Large Pepperoni - £7.55
Large Margarita - £7.25

GD

VF
HW/Ext

9. In this tower, two numbers are multiplied to give the number above. Complete each tower to make them correct.



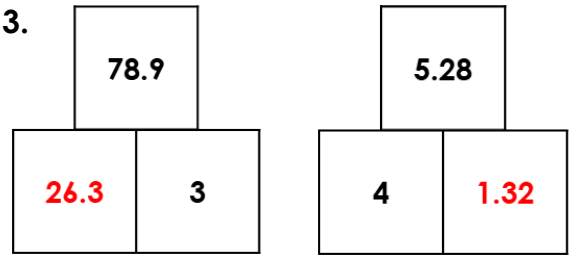


GD

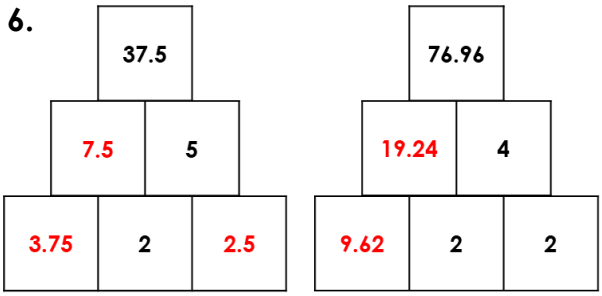
RPS
HW/Ext

Homework/Extension
Division to Solve Problems

Developing

1. C. £3.75 ÷ 3 = £1.25 per hour
2. £3.55 ÷ 5 = 0.71p each
3. 

Expected

4. D. £27.00 ÷ 6 = £4.50 per day
5. £2.60 ÷ 4 = £0.65 each
6. 

Greater Depth

7. C. £95.55 ÷ 7 = £13.65 per hour
8. £3.55 + £7.25 = £10.80; £10.80 ÷ 6 = £1.80 each
9.