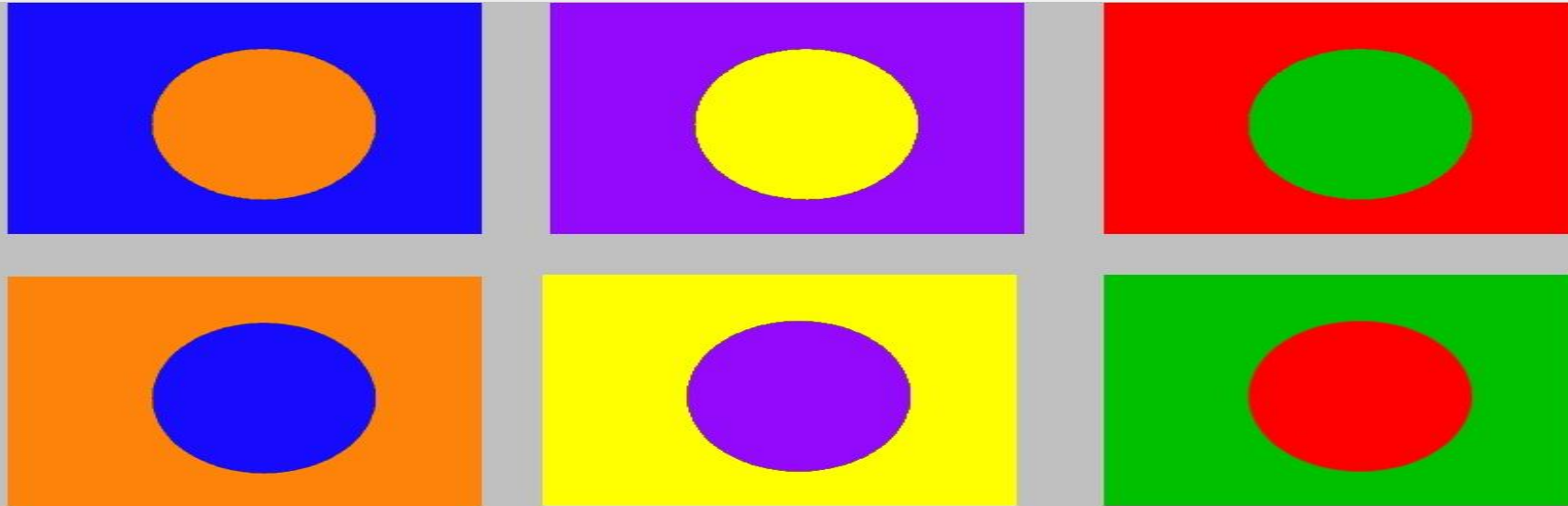


DR BAKER'S YEAR 3 MATHS
WEDNESDAY 22ND APRIL



WELCOME

“Good Morning. Did your estimating help you to find any answers you had got wrong yesterday? It doesn't work if you got the ones column wrong of course so here are the correct answers for you to check. The answers to the times tables are there as well. Challenge for today – why is this picture connected to today's topic?”



TIMES TABLES

Do these questions as quickly as you can. Answers only in your books.

$8 \times 4 = 32$

$10 \times 4 = 40$

$10 \times 3 = 30$

$4 \times 5 = 20$

$10 \times 3 = 30$

$8 \times 12 = 96$

$2 \times 8 = 16$

$10 \times 7 = 70$

$2 \times 3 = 6$

$7 \times 3 = 21$

$3 \times 6 = 18$

$8 \times 9 = 72$

$2 \times 10 = 20$

$10 \times 12 = 120$

$5 \times 10 = 50$

$8 \times 4 = 32$

$6 \times 5 = 30$

$10 \times 5 = 50$

$4 \times 10 = 40$

$10 \times 11 = 110$

1) $\begin{array}{r} 72 \\ + 35 \\ \hline 107 \end{array}$	6) $\begin{array}{r} 37 \\ + 80 \\ \hline 117 \end{array}$	11) $\begin{array}{r} 62 \\ + 65 \\ \hline 127 \end{array}$	16) $\begin{array}{r} 83 \\ + 84 \\ \hline 167 \end{array}$
2) $\begin{array}{r} 84 \\ + 41 \\ \hline 125 \end{array}$	7) $\begin{array}{r} 64 \\ + 52 \\ \hline 116 \end{array}$	12) $\begin{array}{r} 93 \\ + 21 \\ \hline 114 \end{array}$	17) $\begin{array}{r} 41 \\ + 93 \\ \hline 134 \end{array}$
3) $\begin{array}{r} 56 \\ + 51 \\ \hline 107 \end{array}$	8) $\begin{array}{r} 80 \\ + 55 \\ \hline 135 \end{array}$	13) $\begin{array}{r} 57 \\ + 92 \\ \hline 149 \end{array}$	18) $\begin{array}{r} 63 \\ + 40 \\ \hline 103 \end{array}$
4) $\begin{array}{r} 73 \\ + 71 \\ \hline 144 \end{array}$	9) $\begin{array}{r} 43 \\ + 91 \\ \hline 134 \end{array}$	14) $\begin{array}{r} 35 \\ + 71 \\ \hline 106 \end{array}$	19) $\begin{array}{r} 36 \\ + 91 \\ \hline 127 \end{array}$
5) $\begin{array}{r} 95 \\ + 22 \\ \hline 117 \end{array}$	10) $\begin{array}{r} 90 \\ + 92 \\ \hline 182 \end{array}$	15) $\begin{array}{r} 46 \\ + 81 \\ \hline 127 \end{array}$	20) $\begin{array}{r} 73 \\ + 82 \\ \hline 155 \end{array}$

SET A

1) $\begin{array}{r} 278 \\ + 153 \\ \hline 431 \end{array}$	2) $\begin{array}{r} 437 \\ + 248 \\ \hline 685 \end{array}$	3) $\begin{array}{r} 179 \\ + 253 \\ \hline 432 \end{array}$	4) $\begin{array}{r} 520 \\ + 286 \\ \hline 806 \end{array}$
5) $\begin{array}{r} 379 \\ + 56 \\ \hline 435 \end{array}$	6) $\begin{array}{r} 647 \\ + 206 \\ \hline 853 \end{array}$	7) $\begin{array}{r} 716 \\ + 221 \\ \hline 937 \end{array}$	8) $\begin{array}{r} 576 \\ + 328 \\ \hline 904 \end{array}$
9) $\begin{array}{r} 342 \\ + 437 \\ \hline 779 \end{array}$	10) $\begin{array}{r} 589 \\ + 45 \\ \hline 634 \end{array}$	11) $\begin{array}{r} 289 \\ + 176 \\ \hline 465 \end{array}$	12) $\begin{array}{r} 547 \\ + 326 \\ \hline 873 \end{array}$
13) $\begin{array}{r} 473 \\ + 268 \\ \hline 741 \end{array}$	14) $\begin{array}{r} 298 \\ + 337 \\ \hline 635 \end{array}$	15) $\begin{array}{r} 708 \\ + 156 \\ \hline 864 \end{array}$	16) $\begin{array}{r} 683 \\ + 74 \\ \hline 757 \end{array}$
17) $\begin{array}{r} 573 \\ + 264 \\ \hline 837 \end{array}$	18) $\begin{array}{r} 697 \\ + 218 \\ \hline 915 \end{array}$	19) $\begin{array}{r} 449 \\ + 55 \\ \hline 504 \end{array}$	20) $\begin{array}{r} 308 \\ + 439 \\ \hline 747 \end{array}$
21) $\begin{array}{r} 276 \\ + 354 \\ \hline 630 \end{array}$	22) $\begin{array}{r} 317 \\ + 652 \\ \hline 969 \end{array}$	23) $\begin{array}{r} 575 \\ + 385 \\ \hline 960 \end{array}$	24) $\begin{array}{r} 761 \\ + 156 \\ \hline 917 \end{array}$

SET B

$$\begin{array}{r} 1) \quad 607 \\ + \quad 328 \\ \hline 935 \end{array} \quad \begin{array}{r} 2) \quad 286 \\ + \quad 505 \\ \hline 791 \end{array} \quad \begin{array}{r} 3) \quad 705 \\ + \quad 523 \\ \hline 1228 \end{array} \quad \begin{array}{r} 4) \quad 817 \\ + \quad 320 \\ \hline 1137 \end{array}$$

$$\begin{array}{r} 5) \quad 582 \\ + \quad 173 \\ \hline 755 \end{array} \quad \begin{array}{r} 6) \quad 438 \\ + \quad 821 \\ \hline 1259 \end{array} \quad \begin{array}{r} 7) \quad 653 \\ + \quad 273 \\ \hline 926 \end{array} \quad \begin{array}{r} 8) \quad 914 \\ + \quad 59 \\ \hline 973 \end{array}$$

$$\begin{array}{r} 9) \quad 348 \\ + \quad 296 \\ \hline 644 \end{array} \quad \begin{array}{r} 10) \quad 843 \\ + \quad 514 \\ \hline 1357 \end{array} \quad \begin{array}{r} 11) \quad 485 \\ + \quad 176 \\ \hline 661 \end{array} \quad \begin{array}{r} 12) \quad 624 \\ + \quad 365 \\ \hline 989 \end{array}$$

$$\begin{array}{r} 13) \quad 597 \\ + \quad 64 \\ \hline 661 \end{array} \quad \begin{array}{r} 14) \quad 357 \\ + \quad 482 \\ \hline 839 \end{array} \quad \begin{array}{r} 15) \quad 615 \\ + \quad 426 \\ \hline 1041 \end{array} \quad \begin{array}{r} 16) \quad 548 \\ + \quad 703 \\ \hline 1251 \end{array}$$

$$\begin{array}{r} 17) \quad 917 \\ + \quad 351 \\ \hline 1268 \end{array} \quad \begin{array}{r} 18) \quad 652 \\ + \quad 275 \\ \hline 927 \end{array} \quad \begin{array}{r} 19) \quad 846 \\ + \quad 372 \\ \hline 1218 \end{array} \quad \begin{array}{r} 20) \quad 753 \\ + \quad 629 \\ \hline 1382 \end{array}$$

$$\begin{array}{r} 21) \quad 418 \\ + \quad 607 \\ \hline 1025 \end{array} \quad \begin{array}{r} 22) \quad 784 \\ + \quad 275 \\ \hline 1059 \end{array} \quad \begin{array}{r} 23) \quad 984 \\ + \quad 66 \\ \hline 1050 \end{array} \quad \begin{array}{r} 24) \quad 687 \\ + \quad 536 \\ \hline 1223 \end{array}$$

SET C

TASKS FOR TODAY

L.O. To check by doing the opposite (finding the inverse).

Today we are going to use another method for checking answers – doing the opposite calculation. The special name for this, which some of you might remember, is the **inverse calculation**.

If we already know that a calculation is correct we can write an inverse calculation really easily. If our calculation was an + calculation our inverse is a – calculation, and if it was a – the inverse is an + and we just rearrange the numbers. Here we don't have to work out any answers, they are written down for us in the original sum.

e.g. $7 + 3 = 10$ so one inverse calculation is $10 - 7 = 3$ and the other is $10 - 3 = 7$.

If we want to check our calculation we can work out the answer to the inverse.

e.g. If I had done $72 + 35$ and got the answer 107 (so I had $72 + 35 = 107$) I could do $107 - 35$ to see if I was correct. What should my answer to $107 - 35$ be if I was correct?

TASKS FOR TODAY

Hopefully you said 72 because that was the number we started with in the question.

If that is all still a bit confusing watch this clip:

[HTTPS://WWW.YOUTUBE.COM/WATCH?V=VP1ZMJUTB6I](https://www.youtube.com/watch?v=VP1ZMJUTB6I)

As usual there are three levels today. Pick the one you think is right for you and mark every three questions, moving on or back as needed.

In questions 1-3 you don't have to do any working out, just rearrange the calculation (write the inverse) to find the answer. In questions 4-9 write the inverse calculation with answer, again by rearranging. In questions 10 – 15 just write the calculation you would have to do to check (e.g. in 10 it would be $126 - 84$). There is no need to do the calculation.

Set A

Write down the answer to these inverse calculations:

1 $34 + 32 = 66$.
What is $66 - 34$?
What is $66 - 32$?

2 $28 + 73 = 101$.
What is $101 - 73$?

3 $98 - 23 = 75$.
What is $75 + 23$?

For each of these, write an inverse calculation using the boxes to help.

4 $28 + 93 = 121 \rightarrow \square - \square = \square$

5 $85 + 37 = 122 \rightarrow \square - \square = \square$

6 $274 + 83 = 357 \rightarrow \square - \square = \square$

7 $94 - 78 = 16 \rightarrow \square + \square = \square$

8 $83 - 52 = 31 \rightarrow \square + \square = \square$

9 $907 - 73 = 834 \rightarrow \square + \square = \square$

Write an inverse calculation to check:

10 $42 + 84 = 126$

11 $83 - 51 = 32$

12 $64 - 36 = 28$

13 $948 + 25 = 973$

14 $326 + 37 = 363$

15 $754 - 26 = 728$

In questions 1-3 you don't have to do any working out, just rearrange the calculation (write the inverse) to find the answer. In questions 4-9 write the inverse calculation with answer, again by rearranging. In question 10 you need to write and do the inverse calculation to see if your answer is correct

e.g. for A we need to work out the answer to $987 - 64$ in our heads or by column method – I'll use column:

987

-64

923

As my answer (923) is different to the number in calculation A (873) the original calculation must be wrong so $873 + 64$ is not 987.

Set B

Write down the answer to these inverse calculations:

- 1 $837 + 78 = 915$
What is $915 - 78$?
- 2 $926 + 42 = 968$
What is $968 - 42$?
What is $968 - 926$?
- 3 $639 - 28 = 611$.
What is $611 + 28$?

For each of these, write an inverse calculation using the boxes to help.

- 4 $298 + 78 = 376 \rightarrow \square - \square = \square$
- 5 $955 + 35 = 990 \rightarrow \square - \square = \square$
- 6 $654 + 218 = 872 \rightarrow \square - \square = \square$
- 7 $649 - 42 = 607 \rightarrow \square + \square = \square$
- 8 $503 - 267 = 236 \rightarrow \square + \square = \square$
- 9 $684 - 506 = 178 \rightarrow \square + \square = \square$

Two of the calculations below are incorrect.

- A: $873 + 64 = 987$
B: $732 + 241 = 973$
C: $302 - 65 = 237$
D: $936 - 423 = 573$

- 10 Use inverse operations to check which two are incorrect.

Set C

In questions 1-6 just write the inverse calculation without the answer

e.g. 1. $969 - 513$.

In questions 7 to 12 write the inverse, then work it out and see if the original calculation was correct

e.g. If it says $873 + 64 = 987$ we need to work out the answer to $987 - 64$ in our heads or by column method – I'll use column:

987

-64

923

As my answer (923) is different to the number in the calculation (873) the original calculation must be wrong so $873 + 64$ is not 987.

In questions 13-18 you need to first work out the answer, using your method, then use an inverse calculation to check it. If you think it is wrong do the original calculation again. Don't check your answers on these until the end. The questions are on the next slide

Set C

Write an inverse calculation you could use to check:

- 1 $456 + 513 = 969$
- 2 $395 + 287 = 682$
- 3 $561 + 327 = 888$
- 4 $739 - 537 = 202$
- 5 $843 - 124 = 719$
- 6 $957 - 254 = 703$

Use inverse operations to check if these calculations are right or wrong:

- 7 $293 + 586 = 879$
- 8 $374 + 406 = 740$
- 9 $586 + 248 = 884$
- 10 $976 - 564 = 412$
- 11 $858 - 534 = 304$
- 12 $453 - 211 = 242$

Work out, then check with an inverse calculation:

- 13 $632 + 327$
- 14 $384 + 423$
- 15 $178 + 736$
- 16 $692 - 342$
- 17 $597 - 203$
- 18 $643 - 421$

ANSWERS

A

1. 32, 34

2. 28

3. 98

4. $121 - 93 = 28$ 12. $28 + 36$

5. $122 - 37 = 85$ 13. $973 - 25$

6. $357 - 83 = 274$ 14. $363 - 37$

7. $16 + 78 = 94$ 15. $728 + 26$

8. $31 + 52 = 83$

9. $834 + 73 = 907$

10. $126 - 84$

11. $32 + 51$

12. $28 + 36$

13. $973 - 25$

14. $363 - 37$

15. $728 + 26$

B

1. 837

2. 926, 42

3. 639

4. $376 - 78 = 298$

5. $990 - 35 = 955$

6. $872 - 218 = 654$

7. $607 + 42 = 649$

8. $236 + 267 = 503$

9. $178 + 506 = 684$

10. A and D

C

1. $969 - 513$

2. $682 - 287$

3. $888 - 327$

4. $202 + 537$

5. $719 + 124$

6. $703 + 254$

7. Correct

8. Wrong

9. Wrong

10. Correct

11. Wrong

12. Correct

13. 959

14. 807

15. 914

16. 350

17. 394

18. 222

Notice when the original calculation was addition they are two possible subtraction inverses. I have only given one.

REMEMBER:

- **Talk to someone on your network hand if you are worried about something.**
- **If nobody is listening to your worries or there is nobody to talk to, you can google Childline or call them on 08001111. Adults at Childline are used to talking to children with worries and can help you.**
- **If you feel unsafe at home or are worried that a friend is not safe, call Mrs Patchett on 07787261064.**