

## Y3 Addition and Subtraction 3236

Know addition and subtraction facts

## Equipment

Paper, pencil, ruler

# MathSphere 

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## Concepts

By the end of year 3 children are expected to know all the addition and subtraction facts for numbers up to 20 .

This means for example that they know for 14:

$$
\begin{array}{cl}
13+1=14 & 14-1=13 \\
12+2=14 & 14-2=12 \\
11+3=14 & 14-3=11 \\
10+4=14 & 14-4=10 \\
9+5=14 & 14-5=9 \\
8+6=14 & 14-6=8 \\
7+7=14 & 14-7=7 \\
& 14-8=6 \\
\text { and the reverse: } & 14-9=5 \\
1+13=14 \text { etc } & 14-10=4 \\
& 14-11=3 \\
14-12=2 \\
& 14-13=1 \\
& 14-14=0
\end{array}
$$

Addition by doubling is still encouraged; in year 3 doubles from $1+1$ up to $20+20$.

Pairs of multiples of 5 that make 100 should be worked out quickly eg $45+55$ and pairs of multiples of 100 that total 1000 eg $300+700$ should be known by heart.

This knowledge and quick working out will only come with constant practice, most of which will still be oral, and formal written methods of addition and subtraction should not be done until these facts are reasonably well established.

Subtract from 15


Subtract from 16


Harder doubles

1.

2.


3.

4.

5.

6.


1.

2.

3.

4.

5. $\quad 55$ double $>\square$

6.




1. $45+\square=100$
2. $65+\square=100$
3. 


4.
$\square+15=100$
5. $5+\square=100$
6. $35+\square=100$
7. $\square$ $+55=100$
8.

9. $75+\square=100$
10. $15+\square=100$
11.

12. $\square$ $+5=100$
13. $55+$

14. $25+\square=100$

Multiples of 5

$\square+\square+100 \square=100$
$\square+\square+100 \square=100$



## Make a thousand

 many different ways can you find?


$$
\square+\square=1000 \square=1000
$$

Now the hard bit can you remember them all?


## Amazing addition and subtraction action

 champ you are by answering these as quickly as possible!

CHAMPIONSHIP 1

1. $12+4=$
2. $13+6=$
3. $20-5=$
4. $20-9=$
5. $13+13=$
6. $45+45=$
7. $100-35=$
8. $100-75=$
9. $1000-600=$
10. $1000-200=$

CHAMPIONSHIP 2

1. $14+5=$
2. $12+7=$
3. $20-8=$
4. $20-3=$
5. $14+14=$
6. $55+55=$
7. $100-15=$
8. $100-95=$
9. $1000-400=$
10. $1000-800=$

## Amazing addition and subtraction action



Getting quicker with these I
hope - they are all very
much like the earlier ones!

| CHAMPIONSHIP 3 | CHAMPIONSHIP 4 |
| :---: | :---: |
| 1. $15+5=$ | 1. $11+7=$ |
| 2. $16+4=$ | 2. $13+7=$ |
| 3. $20-1=$ | 3. $20-0=$ |
| 4. $20-6=$ | 4. $20-5=$ |
| 5. $12+12=$ | 5. $16+16=$ |
| 6. $65+65=$ | 6. $25+25=$ |
| 7. $100-25=$ | 7. $100-85=$ |
| 8. $100-55=$ | 8. $100-65=$ |
| 9. $1000-900=$ | 9. $1000-100=$ |
| 10. $1000-300=$ | 10. $1000-700=$ |

## Amazing addition and subtraction action



And a real speed
by now -
remember practice makes perfect!

## CHAMPIONSHIP 5

1. $11+7=$
2. $15+2=$
3. $20-3=$
4. $20-16=$
5. $14+14=$
6. $55+55=$
7. $100-65=$
8. $100-25=$
9. $1000-400=$
10. $1000-200=$

## CHAMPIONSHIP 6

1. $12+8=$
2. $13+5=$
3. $20-7=$
4. $20-15=$
5. $17+1=$
6. $35+35=$
7. $100-75=$
8. $100-95=$
9. $1000-800=$
10. $1000-500=$

## Answers

| Page 3 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Clockwise from 15: | : 9 | 136 | 611 | $8 \quad 10$ | 7 12 | 12 |  |  |  |
| Clockwise from 17: | : 12 | $9 \quad 15$ | 10 | 148 | $11 \quad 13$ | 13 |  |  |  |
| Page 4 |  |  |  |  |  |  |  |  |  |
| Clockwise from 16: | : 9 | 118 | 813 | $10 \quad 14$ | 47 |  |  |  |  |
| Clockwise from 18: | : 12 | $9 \quad 15$ | 514 | $10 \quad 16$ | 611 | 13 |  |  |  |
| Page 5 |  |  |  |  |  |  |  |  |  |
| 1.36 $24 \quad 2.18$ | 30 | 3. 26 |  | 4. 382 | 205. | 3216 | 6. | 234 |  |
| Page 6 |  |  |  |  |  |  |  |  |  |
| 1.10 70 2.130 | 30 | 3. 30 | 140 | 4. 160 | $90 \quad 5$. | 1101 | 906. | 0170 |  |
| Page 7 |  |  |  |  |  |  |  |  |  |
| 1.85 2.65 | 3.3 |  | 4. 15 | 5. 25 | 6. | 95 | 7.75 |  |  |
| 8.85 9.55 | 10. 1 |  | 11. 65 | 12. 25 | 13. | 75 | 14.5 |  |  |
| Page 8 |  |  |  |  |  |  |  |  |  |
| 1.55 2.35 | 3. 5 |  | 4. 85 | 5. 95 | 6. | 65 | 7.45 |  |  |
| 8.55 9.25 | 10. 8 |  | 11.35 | 12.95 | 13. |  | 14.75 |  |  |
| Page 10 |  |  |  |  |  |  |  |  |  |
| 1. $600 \quad 2.300$ |  | 800 | 4. 500 |  | 5. 700 | 6. 200 |  |  |  |
| 7.900 8. 300 |  | 800 | 10. 100 |  | . 400 | 12. 60 |  |  |  |
| Page 12 |  |  |  |  |  |  |  |  |  |
| Champ 1: 1.16 | 2. 19 | 3. 15 | 4.11 | 5. 26 | 6. 90 | 7.65 | 8. 25 | 9. 400 | 10. 800 |
| Champ 2: 1. 19 | 2. 19 | 3. 12 | 4. 17 | 5. 28 | 6. 110 | 7. 85 | 8.5 | 9. 600 | 10. 200 |
| Page 13 |  |  |  |  |  |  |  |  |  |
| Champ 3: 1. 20 2. | 2.20 | 3. 19 | 4. 14 | 5. 24 | 6. 130 | 7.75 | 8. 45 | 9. 100 | 10. 700 |
| Champ 4: 1.18 2. | 2. 20 | 3. 20 | 4. 15 | 5. 32 | 6. 50 | 7. 15 | 8.35 | 9. 900 | 10. 300 |
| Page 14 |  |  |  |  |  |  |  |  |  |
| Champ 5: 1.18 22 | 2.17 | 3. 17 | 4. 4 | 5. 28 | 6. 110 | 7.35 | 8.75 | 9. 600 | 10. 800 |
| Champ 6: 1. 20 2. | 2.18 | 3. 13 | 4. 5 | 5. 18 | 6. 70 | 7.25 | 8.5 | 9. 200 | 10. 500 |

