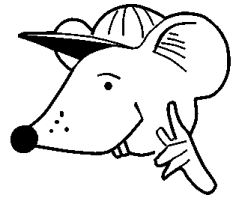




MATHEMATICS



N.S. Yr. 3 P.53

Derive doubles and halves quickly.

Equipment

Paper, pencil.
Dominoes, dice etc useful.

MathSphere

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Concepts

By the end of year 3, children will be expected to understand and begin to read and write a variety of terms associated with doubling and halving, including:

Double, twice, half, halve, divide by two, divide into two.

They should also understand that $\frac{1}{2}$ means a half.

It will be expected that children will be able to double numbers up to 20 and halve any even or odd number to at least 30.

Some of the easier doubles and halves of larger numbers should also be known including doubling multiples of 5 up to 100 and knowing the corresponding halves.

Tables will continue to be learnt and children will be expected to know by heart multiplication and division facts for 2, 5 and 10x tables and begin to know 3 and 4 x tables. See separate worksheets for tables work.

Doubling and halving - oral questions

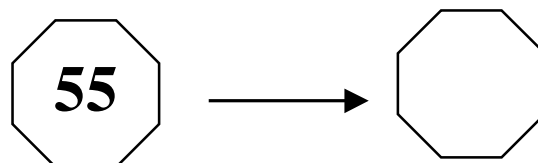
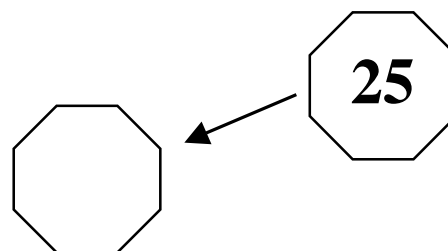
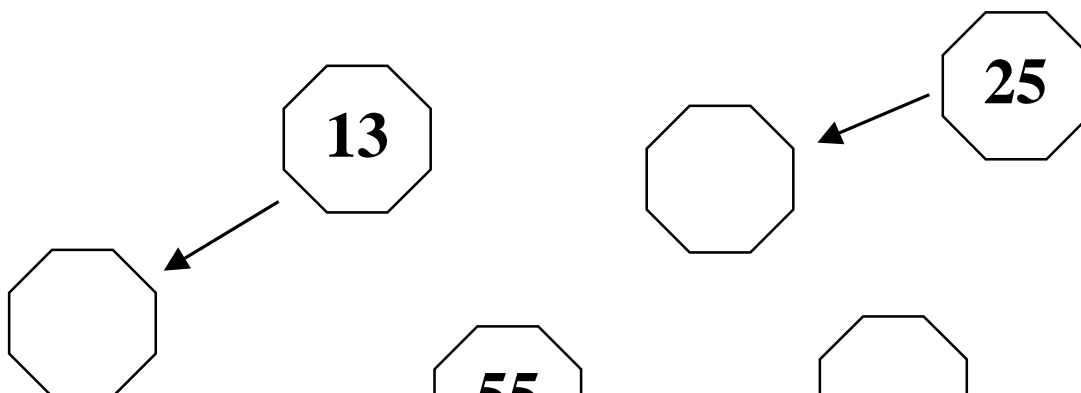
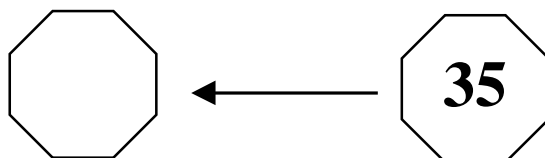
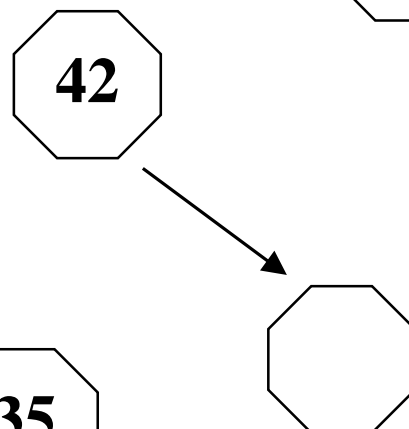
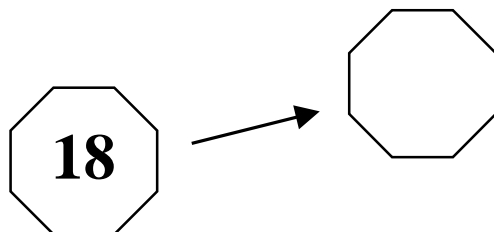
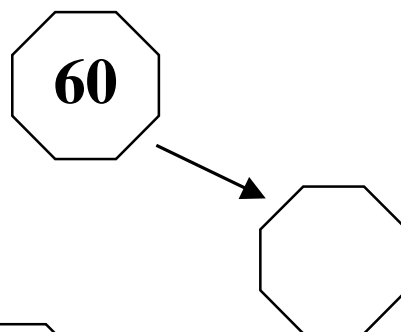
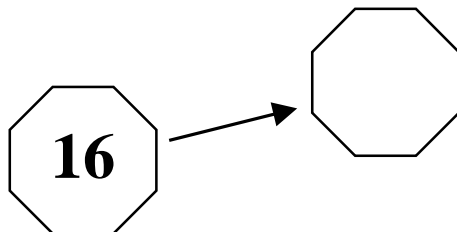
Ask questions such as those below on a frequent basis. The answers could be oral, or the child may hold up a card with the number on it.

1. Double 15.
2. What are two twenty fives?
3. One bar of chocolate cost 35p. What would two bars cost?
4. What is twice 16 ?
5. What is twice 55 ?
6. What is half of 15 ?
7. $\frac{1}{2}$ of 19 ?
8. Jane spent half of her 90p pocket money. How much did she spend?
9. Two mugs cost £5. What would one mug cost?
10. Divide 400 in half.
11. Divide 500 by two.
12. Divide 13 into two.

These type of oral questions can be constantly repeated, using the same terms with different numbers.

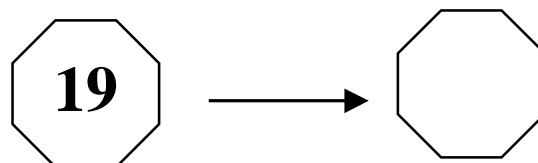
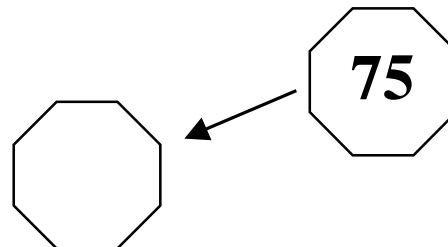
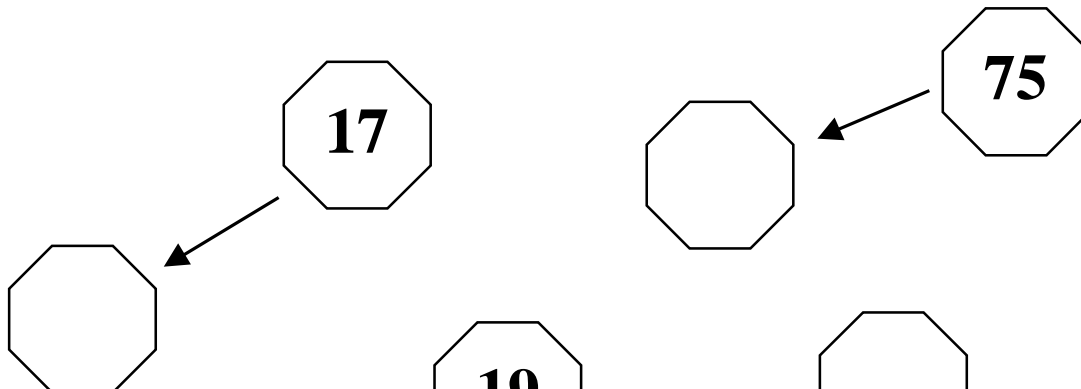
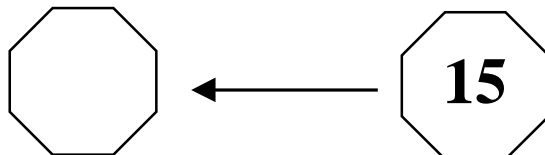
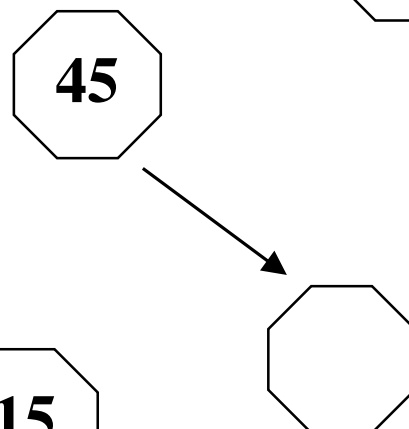
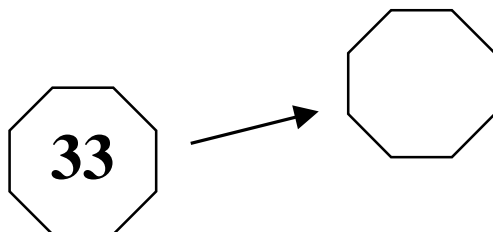
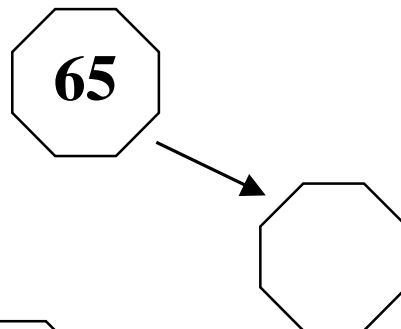
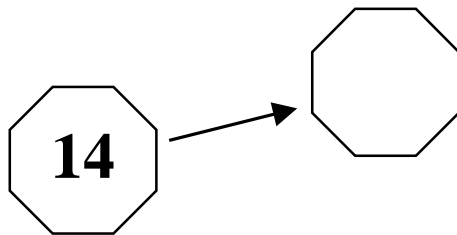
Doubling

Double these numbers.
Put the answers in the boxes.



Doubling

Try doubling these in your head.
Pretty tricky!!



Doubling

See how quickly you can do
all these!
Take care, don't rush.

1. $15 + 15 =$

2. $18 + 18 =$

3. $16 \times 2 =$

4. $2 \times 25 =$

5. $24 +$ $= 48$

6. $35 +$ $= 70$

7. $50 +$ $= 100$

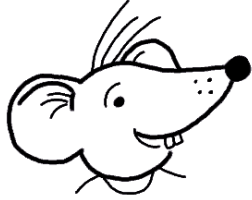
8. $45 +$ $= 90$

9. $\times 2 = 130$

10. $\times 2 = 70$

11. $\times 2 = 120$

12. $\times 2 = 90$

Doubling

Try to work out the answers to these. You need to think, 'double'.

1. $16 + 16 =$

2. $19 + 19 =$

3. $14 \times 2 =$

4. $2 \times 55 =$

5. $17 +$ $= 34$

6. $18 +$ $= 36$

7. $60 +$ $= 120$

8. $55 +$ $= 110$

9. $\times 2 = 26$

10. $\times 2 = 130$

11. $\times 2 = 70$

12. $\times 2 = 180$

Halving - extension

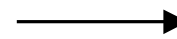
Halve these numbers.
Put the answers in the boxes.
(Clue: they all have a half in
the answer.)



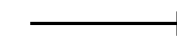
1. half of 25



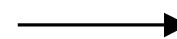
2. half of 13



3. half of 17



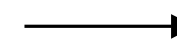
4. half of 23



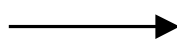
5. half of 11



6. half of 27



7. half of 15

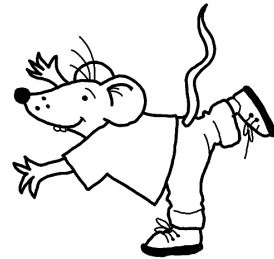


8. half of 21

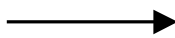


Halving - extension

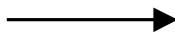
Halve these numbers.
They are quite hard - and
most have a half in the
answer!



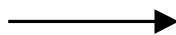
1. half of 19



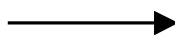
2. half of 29



3. half of 110



4. half of 130



5. half of 31



6. half of 7

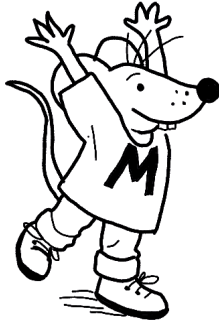


7. half of 33



8. half of 51



Doubling and halving - extension

Try and work the answers
out to all these sums.
They are quite tricky!

1. $70 + 70 =$

2. $5\frac{1}{2} + 5\frac{1}{2} =$

3. $7\frac{1}{2} \times 2 =$

4. $2 \times 9\frac{1}{2} =$

5. $8\frac{1}{2} \times$

$= 17$

6. $10\frac{1}{2} \times$

$= 21$

7. $2 \times$

$= 23$

8. $2 \times$

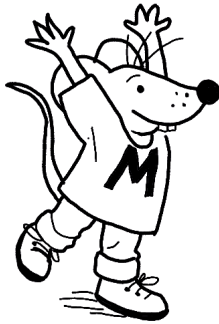
$= 25$

9. $19 \div 2 =$

10. $15 \div 2 =$

11. $110 \div 2 =$

12. $130 \div 2 =$

Doubling and halving - extension

Hands up if you
can do these -
superstars!

1. $6\frac{1}{2} + 6\frac{1}{2} =$

2. $12\frac{1}{2} + 12\frac{1}{2} =$

3. $11\frac{1}{2} \times 2 =$

4. $2 \times 35 =$

5. $3\frac{1}{2} \times$ $= 7$

6. $27 \times$ $= 54$

7. $2 \times$ $= 27$

8. $2 \times$ $= 31$

9. $23 \div 2 =$

10. $11 \div 2 =$

11. $150 \div 2 =$

12. $190 \div 2 =$

Answers**Page 3**

1. 30	2. 50	3. 70p	4. 32	5. 110	6. $7\frac{1}{2}$
7. $9\frac{1}{2}$	8. 45p	9. £2.50	10. 200	11. 250	12. $6\frac{1}{2}$

Page 4

16 - 32	60 - 120	18 - 36	42 - 84	35 - 70	13 - 26	25 - 50	55 - 110
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Page 5

14 - 28	65 - 130	33 - 66	45 - 90	15 - 30	17 - 34	75 - 150	19 - 38
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Page 6

1. 30	2. 36	3. 32	4. 50	5. 24	6. 35
7. 50	8. 45	9. 65	10. 35	11. 60	12. 45

Page 7

1. 32	2. 38	3. 28	4. 110	5. 17	6. 18
7. 60	8. 55	9. 13	10. 65	11. 35	12. 90

Page 8

1. $12\frac{1}{2}$	2. $6\frac{1}{2}$	3. $8\frac{1}{2}$	4. $11\frac{1}{2}$	5. $5\frac{1}{2}$	6. $13\frac{1}{2}$	7. $7\frac{1}{2}$	8. $10\frac{1}{2}$
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Page 9

1. $9\frac{1}{2}$	2. $14\frac{1}{2}$	3. 55	4. 65	5. $15\frac{1}{2}$	6. $3\frac{1}{2}$	7. $16\frac{1}{2}$	8. $25\frac{1}{2}$
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Page 10

1. 140	2. 11	3. 15	4. 19	5. 2	6. 2
7. $11\frac{1}{2}$	8. $12\frac{1}{2}$	9. $9\frac{1}{2}$	10. $7\frac{1}{2}$	11. 55	12. 65

Page 11

1. 13	2. 25	3. 23	4. 70	5. 2	6. 2
7. $13\frac{1}{2}$	8. $15\frac{1}{2}$	9. $11\frac{1}{2}$	10. $5\frac{1}{2}$	11. 75	12. 95