

<指導上のポイント>

3次元空間は、前後・上下・左右の3つの次元、つまり、3つの座標軸からなりたっています。そして、この概念は人間が自然を理解するために創りあげたものなので、後天的に自らの力で、自分の頭の中に育てあげなければならないものです。

「鏡絵」は、鏡に映った姿を理解するものですが、鏡に映った姿は、実際の姿と左右が逆転している姿であることを、頭で感じ取ることができるようにするのが、この問題集の目的です。

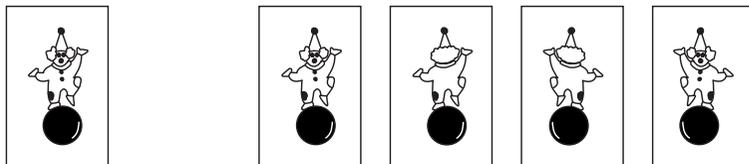
問題の意味を理解させる方法としては、実際に絵や文字や数字を子供に描かせて（左右対称でないものがよい）、鏡に映してみることです。左右が逆転している姿・様子を理解できるようになったら、実際の問題に取り掛かるわけですが、解答するときには絶対に違うものを見つける消去法や、これが正しいならばどうなるだろうという仮定法を使って考えるようにしてください。

左手と右手が、鏡絵のように左右対称の形をしたものです。鏡絵の関係を実感するにあたり、両手の手のひらを合わせ、左右の親指を軸として開いていけばよりわかりやすくなります。実際に問題を解く際には、両手を使って説明すればよいでしょう。

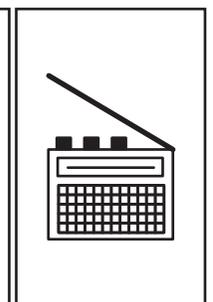
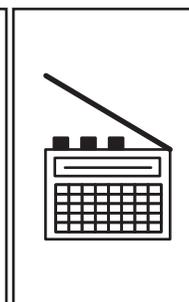
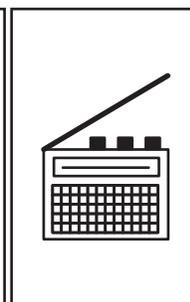
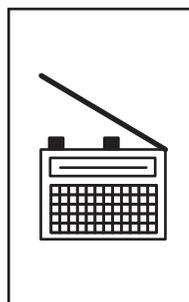
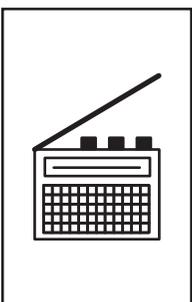
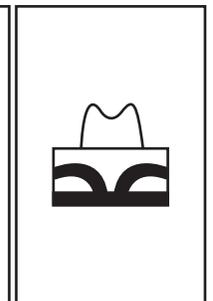
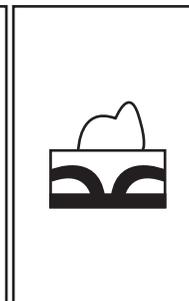
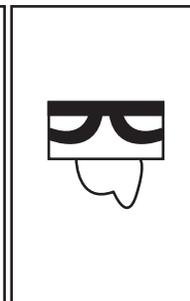
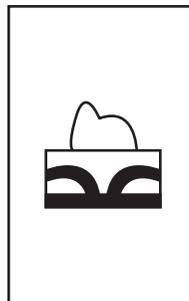
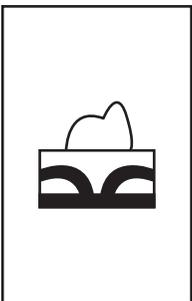
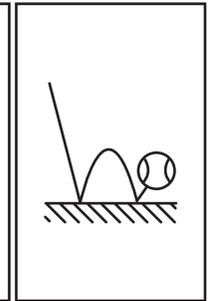
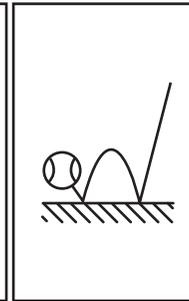
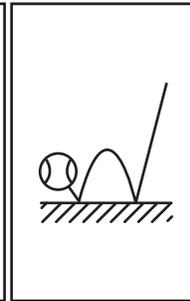
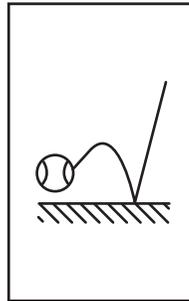
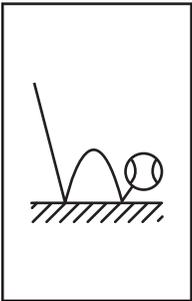
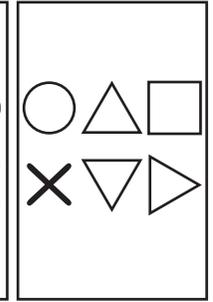
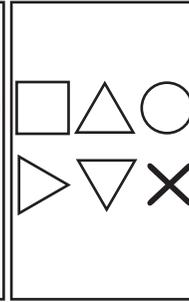
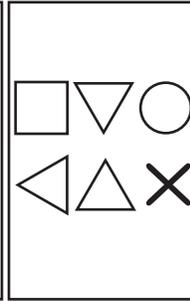
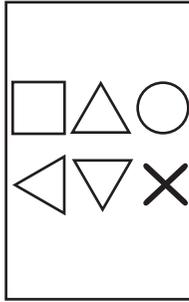
しかし、いろいろなところで申しあげている通り、ただ問題を解答すればよいのではなく、問題を解答する過程を通じて、空間把握能力や思考力を育てるのが本来の目的なのです。ですから、最終的に手のひらを使わずに頭で左右対称の関係を理解させるようにしてください。

鏡絵を理解するために必要な空間把握能力は、思考力の基礎でもあります。この能力が低いと、数論理能力や言語能力も低くなってしまいますので気をつけてください。

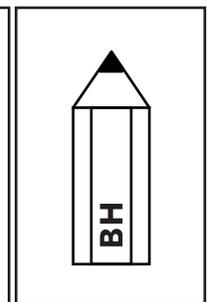
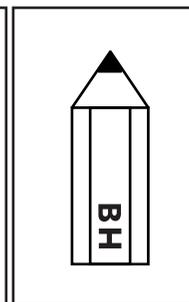
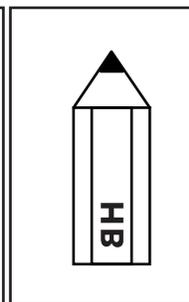
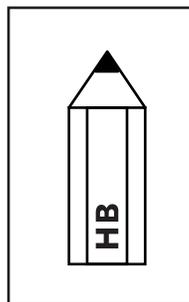
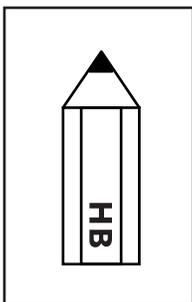
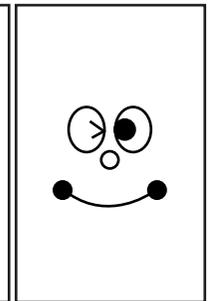
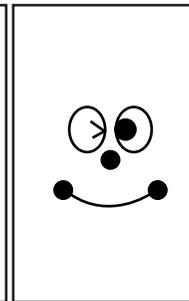
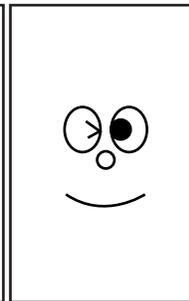
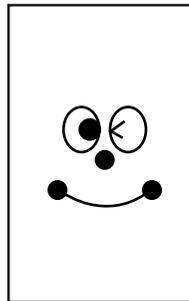
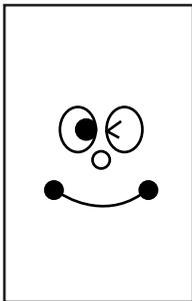
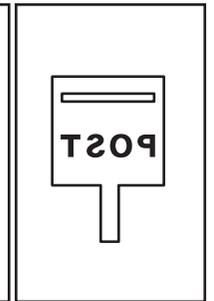
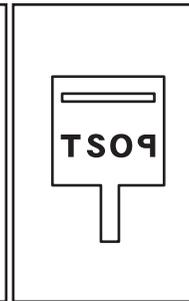
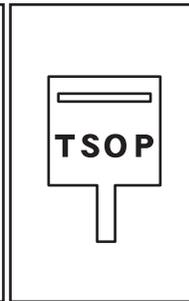
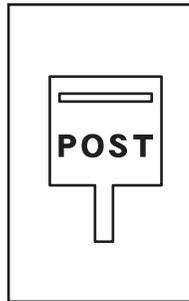
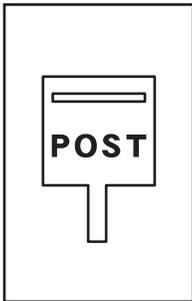
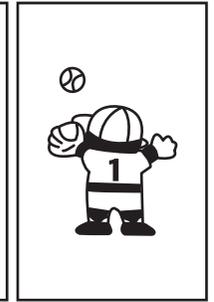
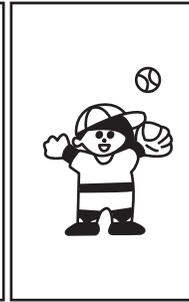
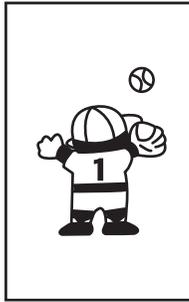
以上の点に留意しながら、この問題集を使用してください。



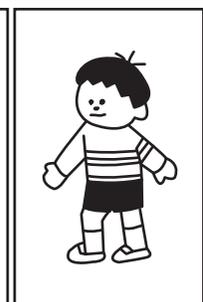
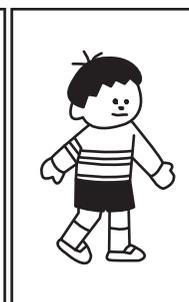
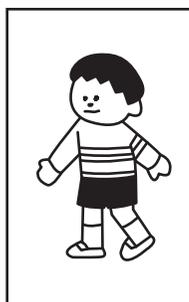
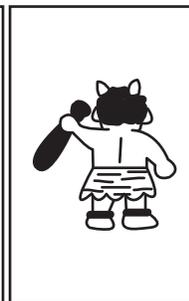
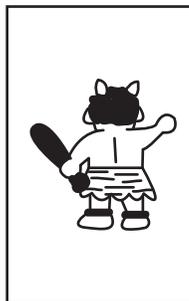
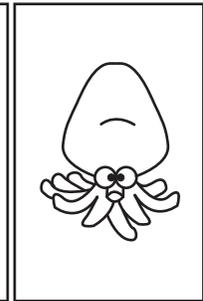
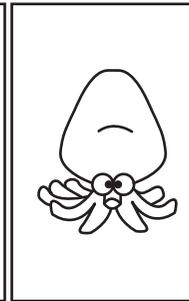
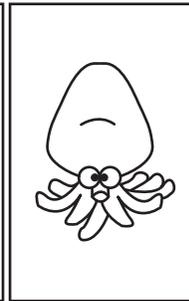
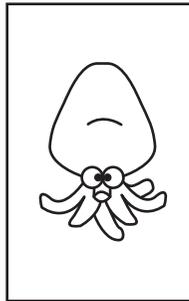
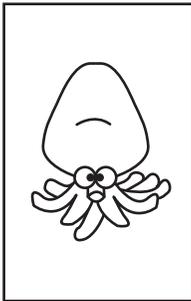
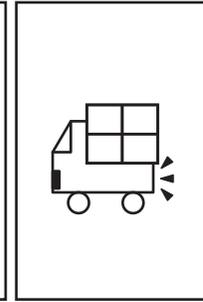
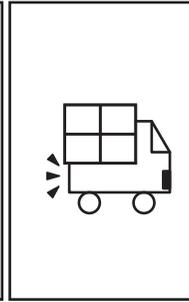
<問題 1 > 左端の絵を鏡にうつすと、どうなりますか？右から選んで、○をつけましょう。



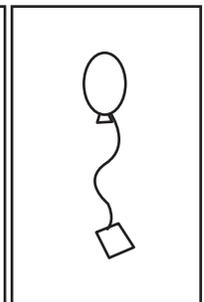
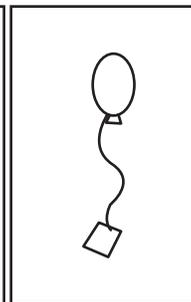
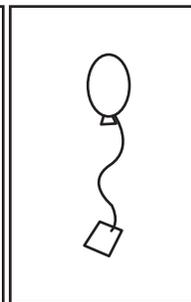
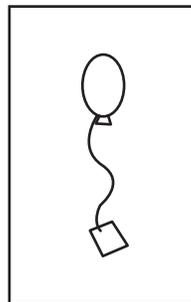
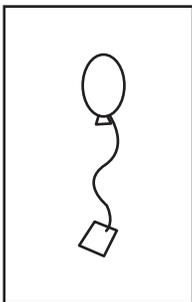
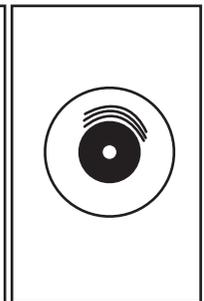
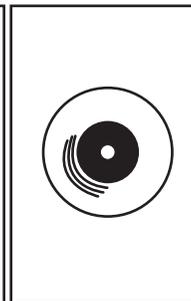
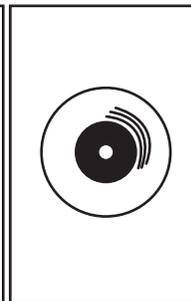
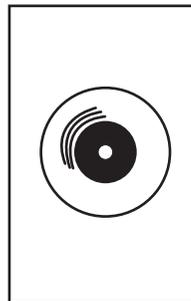
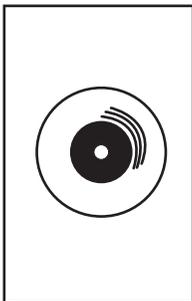
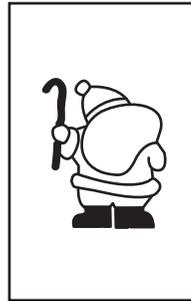
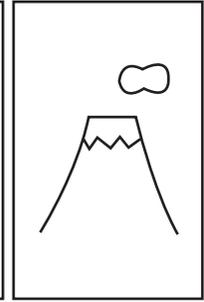
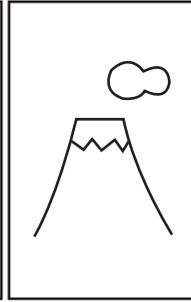
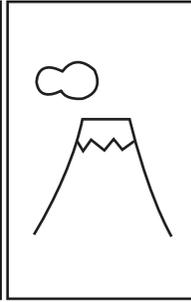
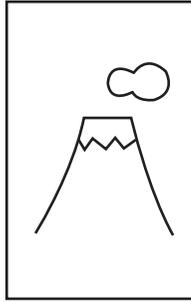
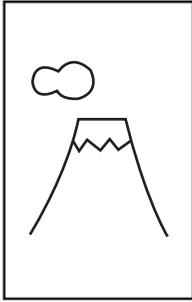
<問題 6 > 左端の絵を鏡にうつすと、どうなりますか？右から選んで、○をつけましょう。



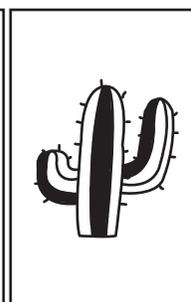
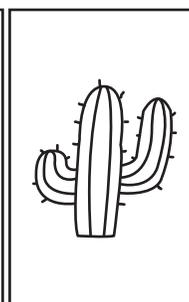
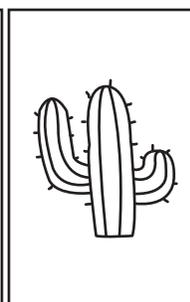
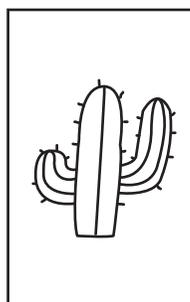
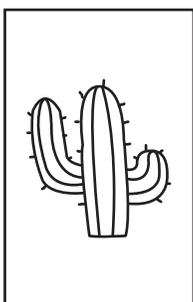
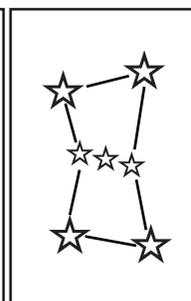
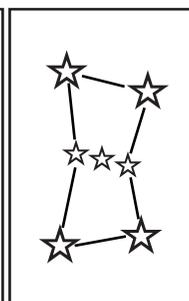
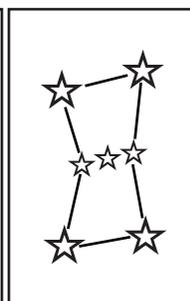
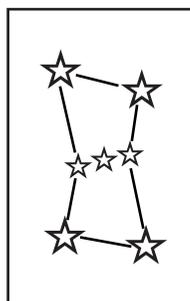
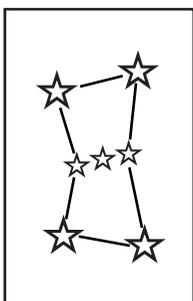
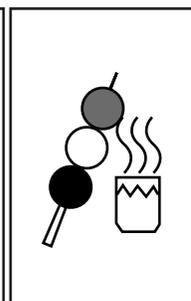
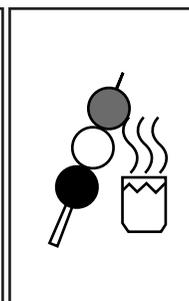
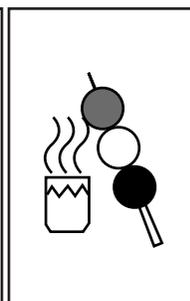
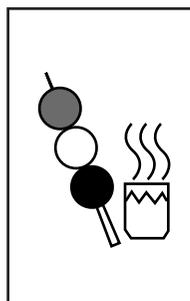
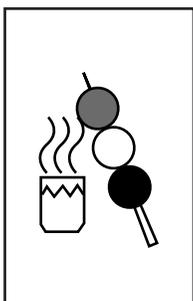
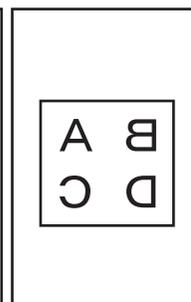
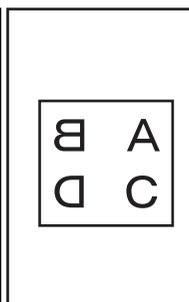
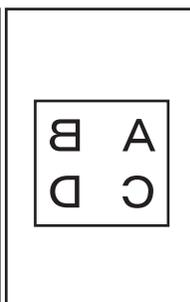
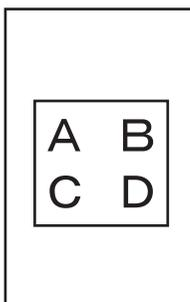
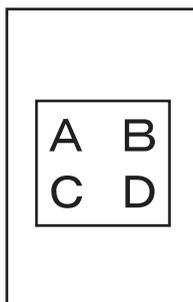
<問題11> 左端の絵を鏡にうつすと、どうなりますか？右から選んで、○をつけましょう。



<問題16> 左端の絵を鏡にうつすと、どうなりますか？右から選んで、○をつけましょう。



<問題21> 左端の絵を鏡にうつすと、どうなりますか？右から選んで、○をつけましょう。



<問題26> 左端の絵を鏡にうつすと、どうなりますか？右から選んで、○をつけましょう。

